A. I. A. FILE NUMBER 30-E

Div. 81

GRILLES BY Diamond

MANUFACTURING CO.
WYOMING, PA.

ORNAMENTAL · CANE
PERFORATED METALS
REGISTERS

FOR HEATING, VENTILATING, AIR CONDITIONING AND INDUSTRIAL USES

DIAMOND TRADE MARK GRILLES

CATALOG NUMBER 36

PATENT OFFICE JUL 5 1950
SCIENTIFIC LIBRARY JUN 21 1950

Div. 81-

DIAMOND GRILLE SPECIFICATIONS

CATALOG NUMBER THIRTY-SIX

FOR ARCHITECT AND ENGINEER

SCIENTIFIC LIBRARY
JUN 21 1960
U. S. PATENT OFFICE

MADE IN U. S. A.

CONTENTS - SECTION ONE ●

ARCHITECTURAL GRILLES

OF HEAVY PERFORATED METAL

Conventional Designs - Modernistic Designs Combination Designs - Sanitary Slot Designs - Sliding Dampers - Installation Methods - Framed Door Grilles

CONTENTS - SECTION TWO ●

AIR-CONDITIONING REGISTERS AND GRILLES

All Steel Registers - Governair Registers - Wire Grilles Fabricated Grilles - Door Louvers - Steel Back Pressure Dampers - Exhaust Fan Dampers - Bevel Wall Frames Ornamental Cane - Industrial Perforated Metal

DIAMOND MANUFACTURING COMPANY
WYOMING - PENNSYLVANIA

D.V-81

SALES REPRESENTATIVES

BALTIMORE 11, MD.	Consolidated Supply Co.	Huntingdon Ave. at 26th St.
BIRMINGHAM, ALA.	Snowden-Walters Co.	209 — 19th Street, So.
BROOKLINE 46, MASS.	The Leonhardt Co.	89 Pond Avenue
DALLAS, TEXAS	R. J. DeWees & Son, Inc.	5911 Maple Avenue
DENVER, COLORADA	Mr. E. P. Murr	2542 W. 28th Ave.
DETROIT 2, MICHIGAN	Mr. G. W. Craighead	3049 E. Grand Blvd.
FARGO, NORTH DAKOTA	Adams, Inc.	6 North 13th Street
HOLLYWOOD, CALIFORNIA	Mr. L. B. Hartley	733 N. Fairfax Avenue
HOUSTON 6, TEXAS	Jack Thomas Davis	3303 Montrose Blvd.
KANSAS CITY 3, MO.	L. N. Manley, Jr.	1103 E. Armour Blvd.
LYNCHBURG, VIRGINIA	Montague-Betts Co.	1619 Wythe Road
MINNEAPOLIS, MINN.	Mr. A. D. Hale	121 W. Rustic Lodge Ave.
NEW ORLEANS, LA.	Harry J. Waldo	332 Camp Street
NEW YORK, NEW YORK	Mr. James W. McGuire	370 Lexington Ave.
PHILADELPHIA, PA.	Mr. Frank H. Lewis	7725 Bingham Street
PITTSBURGH, PA.	Busch Company	4318 Penn Ave.
PORTLAND, OREGON	W. G. Ballantyne Co.	1215 N. W. Everett Street
RALEIGH, N. C.	L. R. Gorrell	P. O. Box 5742
ST. LOUIS 8, MO.	H. C. Sharp Co.	4060 W. Pine Blvd.
SALT LAKE CITY, UTAH	A. A. Mayock Co.	234 Seventh Ave.
SHREVEPORT, LA.	J. W. Cherry Co.	329 College Street
TAMPA, FLORIDA	Tampa Forge & Iron Co. Div. of Florida Steel Products Co.	43rd Ave. S. of E. Broadway
WARREN, OHIO	R. G. Alexander Co.	1569 Woodland Ave., N.E.
WARSAW, NEW YORK	Mr. F. Robert Foster	128 Wyoming Street
WASHINGTON, D.C.	Irving M. Day Co.	723 Mills Building
WORCESTER, MASS.	Haskins-Haire Wire Works	9 May Street

DIAMOND MANUFACTURING COMPANY

WYOMING - PENNSYLVANIA

CONTENTS

SECTION ONE--ARCHITECTURAL GRILLES

	Page
Specifications for Ordering	1
Specification Suggestions	2
Standard and Recommended Gauges	3
Finishes: Diamond and Comparative	4
Heavy Perforated Grille Information	5
Prominent Installations	6
Contents--Section One	7
1/4" Square Design A-23--1/8" Bar	7 A
5/16" Square Design A-21--3/16"Bar	9
3/8" Square Design A-17--3/16" Bar	9
1/2" Square Design A-19--1/8" Bar	9
1/2" Square Design A-6--3/16" Bar	9
1/2" Square Design A-1--1/4" Bar	11
5/8" Square Design A-10--1/4" Bar	11
3/4" Square Design A-2--1/4" Bar	11
13/16" Square Design A-20--3/16" Bar	11
13/16" Square Design A-18--3/8" Bar	13
7/8" Square Design A-3--3/16" Bar	13
7/8" Square Design A-7--1/4" Bar	13
1" Square Design A-4--1/4" Bar	13
1" Square Design A-8--5/16" Bar	15
1" Square Design A-9--1/2" Bar	15
1-1/4" Square Design A-11--3/8" Bar	15
1-3/8" Square Design A-5--3/8" Bar	15
1-1/2" Square Design A-12--3/8" Bar	17
2" Square Design A-13--1/4" Bar	17
2" Square Design A-14--3/8" Bar	17
2-1/2 Square Design A-15--1/4" Bar	17
2-1/2" Square Design A-16--3/8" Bar	17
1-3/4" Union Jack Design B-1	18
2-1/2" Union Jack Design B-2	19
2-1/2" Union Jack Design B-3	20
3" Union Jack Design B-4	21
3-1/2" Union Jack Design B-5	22
5-5/8" Union Jack Design B-6	22
1-5/16" Honeycomb Design C-1	23
1-1/4" Cloverleaf Design CL-1	24
1-1/4" Cloverleaf Design CL-2 (with half holes)	25
1/2" Diagonal Lattice Design D-1	26
3/4" Diagonal Lattice Design D-2	27
7/8" Diagonal Lattice Design D-3	28
7/8" Diagonal Lattice Design D-6 (with half holes)	29
7/8" Diagonal Lattice Design D-7	30
1" Diagonal Lattice Design D-4	31
1" Diagonal Lattice Design D-5 (with half holes)	32
1-1/2" Diagonal Lattice Design D-8	33
1-13/16" Maltese Cross Design E-2	34
2-3/4" Maltese Cross Design E-1	35
1-13/16" Diagonal Panel Design E-4	36
2-3/4" Diagonal Panel Design E-3	37
1-1/2" x 1-3/4" Teardrop Pattern F-1	38
1-1/2" x 1-3/4" Teardrop Pattern F-2 (with part holes)	39
2" x 2-1/4" Teardrop Pattern F-4 (with part holes)	40
2" Doric Design G-1	41
2-5/8" Egyptian Design G-2	42
2-7/8" Doric Design G-3	43
2-1/2" x 2" Ionic Design H-1	44
2-1/2" x 2" Ionic Design H-2 (with half holes)	45
2-1/2" x 2" Ionic Design H-3 (Special)	46
2" x 2-1/8" Gothic Design J-1	47
4-7/8" Gothic Design J-3	48

Continued Next Page

CONTENTS

	Page
5-5/8" Gothic Design J-2 (Special)	48 A & B
2-1/2" Jack Special Design K-1	49
3-3/4" Jack Special Design K-2	50
2" Greek Design K-3	51
2-7/8" Greek Design K-4	52
1-1/2" Basket Weave Design K-6	53
1-3/4" Basket Weave Design K-5	54
2-1/16" Basket Weave Design K-7	55
2-1/2" Basket Weave Design K-8	56
3/4" x 2-3/4" Brick Design K-9	57
5/8" x 1-3/8" Diamond Design M-1	58
5/8" x 1-3/8" Diamond Design M-2 (with half holes)	59
3/4" x 1-1/4" Diamond Design M-4 (with half holes)	60
9/32" x 1-7/16" Horizontal Slot Design S-20	60 A & B
1-7/16" x 9/32" Vertical Slot Design S-9	61
3/4" x 2-3/4" Hospital Slot Design S-1	62
3" Mosaic Design S-2	63
3/4" x 2-3/4" Horizontal Slot Design S-3	64
3/16" x 1-1/2" School Slot Design S-4	65
6-15/16" Ceiling Design S-5	66
Round End Sanitary Slot Designs S-6-7-8	66A
Square End Sanitary Slot Designs S-10-11-12	66B
2-7/16" Mosaic Design S-13	67
3-1/2" Modernistic Design 101	68
1-3/4" x 2-1/2" Modernistic Design 102	69
2-1/2" x 3" Modernistic Design 103	70
1-5/16" x 2-1/4" Modernistic Design 104	71
2-15/16" x 1-1/8" Modernistic Design 105	72
2-1/8" x 3-5/8" Modernistic Design 106	73
Modernistic Design 107	74
1-5/8" Modernistic Design 108	75
Modernistic Design 109	76
Modernistic Design 110	77
Diamond Grilles Combination Designs	78
Diamond Grilles Installation Methods	79
Plaster Stop Frames	79
Diamond Framed Door Grilles	80
SECTION TWO -- Air-Conditioning - Registers - Grilles	81
Louver Type Close Space Registers	82
Adjustable Bar Fin-Type Grilles	82
Lever Operated Multiple Louver Registers	83
Individually Set Multiple Louver Registers	84
Frames (Outside) No. 51 for Air-Conditioning Registers and Grilles and Flat Steel Grilles	85
Registers: All-Steel	86
Governair Registers	87
Fabricated Grilles	88
Fixed Louver Type Grilles	89
Steel Back Pressure Dampers, Styles 60, 70 and 80	90
No. 190 Multi-Flex Air-Conditioning Register	90 A
No. 191 Multi-Flex Air-Conditioning Register	90 B
No. 192 Multi-Flex Air-Conditioning Register	90 C
No. 193 Multi-Flex Air-Conditioning Register	90 D
No. 194 Multi-Flex Air-Conditioning Register	90 E
No. 195 Multi-Flex Air-Conditioning Register	90 F
No. 196 Multi-Flex Air-Conditioning Register	90 G
No. 500 Diamond Ceiling Outlets and No. 900 Round Installation Frames	90 H
Industrial Perforated Metals and Sizing Screens	91
Cane: Ornamental	92
Ornamental	93
Metal Products: Perforated - Sheet - Plate	94

DIAMOND MANUFACTURING COMPANY

WYOMING - PENNSYLVANIA

SPECIFICATIONS

TO USE WHEN ORDERING OR REQUESTING QUOTATIONS

- **QUANTITY**
  Number of each item desired.

- **OVERALL DIMENSIONS**
  Open area plus margins.

- **APPROXIMATE MARGINS**
  Margins furnished will be dependent upon the design used. We will try to maintain the margins desired.

- **MATERIAL**
  State whether Steel, Brass, Commercial Bronze, Yellow Bronze, Aluminum, Monel Metal, Stainless Steel, etc.

- **THICKNESS or GAUGE**
  No. 14. U.S.S.--No. 12 B & S Ga. to 1/4" thick inclusive.

- **DESIGN**
  Use our design number

- **FINISH**
  Prime Coat, Polished and Lacquered, Sprayed, Electroplated, Chromium, Nickel, Cadmium, Alumilited, etc.

- **SCREW HOLES**
  LOCATION and SIZE - COUNTERSUNK or PLAIN
  State centers of holes and distance from outside edge. Unless otherwise specified we furnish countersunk holes centered on margin, 12 inches apart for number 8 wood screws.

- **HAND-HOLES**
  SIZE and LOCATION
  Unless otherwise specified, hand-holes are furnished approximately 6"x 6", and as near the margin of grille as possible. Rough sketches of hand-holes should be furnished.

SPECIFICATION SUGGESTIONS

FOR ARCHITECTS AND ENGINEERS

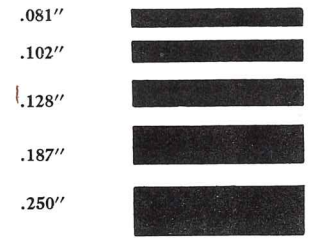
THICKNESS or GAUGE

STEEL--STAINLESS STEEL--MONEL

.078″	14 U. S. S.
.109″	12 U. S. S.
.140″	10 U. S. S.
.171″	8 U. S. S.
.187″	3/16″
.250″	1/4″

BRASS--BRONZE--ALUMINUM AND NICKEL SILVER

.081″	12 B. & S.
.102″	10 B. & S.
.128″	8 B. & S.
.187″	3/16″
.250″	1/4″



In order that Architects and Engineers may arrange the duct opening to conform with the possible opening sizes for the various design Grilles, we are showing on the following pages tables for each design, giving the possible daylight openings. If the Architect follows these tables we can make the daylight opening in the Grilles the same size as the duct opening and provide for an equal margin all around.

SPECIFICATIONS SHOULD BE WRITTEN AS FOLLOWS: All Grilles shall be design number . . . . . as manufactured by Diamond Manufacturing Company, Wyoming, Pa., made from . . . . . thickness Steel, Brass, Bronze, etc., to be finished in Prime Coat or Electro-plate as per sizes shown on the plans which give the opening, or the overall dimensions. Margins should be approximately . . . . . inches all around.

RECOMMENDATIONS

STANDARD AND RECOMMENDED GAUGES · UNIFORM MARGINS

STANDARD MILL GAUGES: Certain gauges or thicknesses are standard for metals for grilles, and these standard gauges can be furnished promptly. Gauges other than the following are available only on special rolling which involves considerable delay and higher costs.

Material	Stock Gauges	Material	Stock Gauages
Steel Monel Metal Stainless Steel	No. 16 U S S 14 " 12 " 1/8" thick No. 10 U S S 1/4" thick	Brass Bronze Aluminum Nickel Silver Everdur	No. 14 B & S 12 " 10 " 1/8" thick 1/4" thick

RECOMMENDED GAUGES: While it is difficult to set hard and fast rules as to proper gauges for grilles of different sizes, it is recommended that the minimum gauges be NOT LESS than the following when grilles are located on ceilings and walls:

	Steel-Monel Metal-Stainless	Other Metals
When one demension is not over 6"	No. 16 U S S	No. 14 B & S
" " " " " " 12"	14 "	12 "
" " " " " " 24"	12 "	10 "
" " " " " " 36"	10 "	1/8" thick
" " " " " " 48"	3/16" thick	3/16" "
" " " exceeds 48"	1/4" "	1/4" "

TO OBTAIN UNIFORM MARGINS: Perforated grilles can be produced only with certain opening sizes; that is, the dimensions of the actual area of perforations are restricted to the figures shown in the open area Tables for each design published in our Catalog. To obtain equal margins on all edges of the grilles, it is necessary to first select the grille design. The tables will show the actual open or daylight size obtainable nearest to the wall or duct opening required. The opening should be 1/4" to 1/2" larger than the grille opening. The width of margins should then be added to obtain the overall dimensions. FOR EXAMPLE, if 7/8" plain lattice with 1/4" bar is selected for a grille opening ABOUT 22" x 30", by reference to grille opening table in our Catalog it is seen that the nearest grille opening size is 22-1/4" x 30-1/8". The wall opening should, therefore, be made 22-1/2" to 22-3/4" by 30-3/8" to 30-5/8". If the above procedure is followed, uniform margins on all sides can be had resulting in a perfect appearing grille.

TABLE OF "DIAMOND FINISHES" AND COMPARATIVE FINISHES

U. S. S. SYMBOL	DESCRIPTION OF FINISH	Diamond	Corbin	Russwin	Stanley	Sargent	Yale	Safe
		1			P			
U. S. P.	Steel Prime Coat Gray	2	KB	2	B	A	BY65	SM
U. S. 20	Steel Electroplated Medium Statuary	3						SL
	Steel Electroplated Light Statuary	4	LB	2D	B1	A3B		SD
U. S. 20 A	Steel Electroplated Dark Statuary	5	DB	11D	A5	OP	BY22	DBZ
U. S. 10	Steel Electroplated Natural Bronze Satin	6	B or N	11	A	P	BZ10	BZ
U. S. 9	Steel Electroplated Natural Bronze, Polished	7	DB	11D	A5	OP	BY22	DBZ
U. S. 10	Yellow Bronze Natural Satin	8	B or N	11	A	P	BZ10	BZ
U. S. 9	Yellow Bronze Natural Polished	9	DCR	34	CMD	DCM	DY10	DC
U. S. 26 D	Yellow Bronze Satin Chromium Plated	10	CR	24	CM	CM	DZ10	BC
U. S. 26	Yellow Bronze Polished Chromium Plated	11						
	Aluminum Satin	12						
	Aluminum Polished	13	E	4	N	N	NZ10	N
U. S. 14	Nickel Plated Bright	14	DE	14	N5	LN or L5N	NY10	DN
U. S. 15	Nickel Plated Dull	15						
	Aluminum Black Alumilite	16						
	Aluminum Etched Alumilite	17						
	Commercial Bronze Natural Satin	18						
	Commercial Bronze Natural Polished	19						
	Steel Gunmetal	20			K	W	CM	CD
U. S. 2 C	Steel Cadmium Plated (Bright)	21						
	Stainless Steel No. 4 Polished	22						
	Stainless Steel No. 2 B	23						
	Steel Parkerized	24	J		J		J	J
U. S. 1 B	Japanned Bright Black	25	D		J1	J	DJ	
U. S. 1 D	Japanned Dead Black	26	A or L	10	C	B	AZ10	B
U. S. 3	Brass, Plated or Natural Metal, Bright	27	EA	9	F	OB	AY22	DB
U. S. 4	Brass, Plated or Natural Metal, Dull	28	KA	9C	F4	OE	AY21	
U. S. 5	Brass, Plated or Natural Metal, Oxidized and Relieved, Uniformly Dull	29	SKA	O9C	SF4	RD	AX28	C
U. S. 6	Brass, Plated or Natural Metal, Oxidized and Relieved, Uniformly Sanded	30	2A	O9B		R7D		
U. S. 7	Brass, Plated or Natural Metal, Oxidized and Relieved, Uniformly Sanded	31	R	7-1/2	D2	AB or A5B	CZ27	AC
U. S. 8	Copper Plated, Oxidized and Relieved Transversely, Bright	32	HB	11C	A4	06P	BY21	
U. S. 11	Bronze, Plated or Natural Metal, Oxidized and Relieved, Uniformly Dull	33	SHB	O11C	SA4	RP	BX13	SSBL
U. S. 12	Bronze, Plated or Natural Metal, Oxidized and Relieved, Uniformly Sanded	34				R8P		
U. S. 13	Bronze, Plated or Natural Metal, Oxidized and Relieved, Uniformly Sanded	35	SE		SN	RN	NX10	DNS
U. S. 16	Nickel Plated Sanded	36				R7N		
U. S. 17	Nickel Plated Sanded	37	F	46	G	BB	FX80	BB
U. S. 18	Bower Barff, Rustproof Black, Sanded	38	KF	47	H	BN	FX90 or BX80	BB
U. S. 19	Dull Black, Plated, Oxidized, Sanded	39	SKB	02	SB	RA	BX25	SSBM
U. S. 21	Statuary Bronze, Sanded	40	V	36	V	VA	BX67	
U. S. 22	Verde Antique	41						F
	Brass Dull Sand Blasted	42						E
	Brass Antique, Not Shaded, Sand Blasted	43						FBZ
	Bronze, Dull, Sand Blasted	44						SSBD
	Bronze, Dark Satuary, Sand Blasted	45						BR
	Burnished Brass or Bronze	46						H
	Hammered	47						H1
	Half Iron	48						OR
	Oil Rubbed	49			Z			
U. S. 2 S	Steel Sheradized, Natural							

Samples for No.'s 1 to 12, 15 to 23 inclusive. Other samples furnished upon request, when necessary.

DIAMOND *heavy perforated* GRILLES

SUPERIOR TO CAST GRILLES - IN 1/4 AND 3/16 IN. THICKNESSES

COST:

HEAVY PERFORATED GRILLES are less expensive than cast grilles, because of the fact that not only are pattern costs eliminated, but the finishing difficulties experienced with cast grilles are avoided as well.

STRENGTH:

HEAVY PERFORATED GRILLES have a greater strength intensity than cast grilles and are not brittle.

APPEARANCE:

PERFORATED GRILLES present a cleaner cut appearance than cast grilles and take a superior finish because of their finer grain texture.

SHIPMENT:

HEAVY PERFORATED GRILLE SPECIFCATIONS are conductive to quick shipments because large quantities of blank sheets of all metals are carried in stock which can be immediately perforated to meet requirements. No holdups are experienced because of pattern or finishing difficulties.

SIZE:

HEAVY PERFORATED GRILLES can be furnished in any size or shape up to 50″ wide by 120″ long in one piece. Larger grilles can be furnished in two or more pieces. It is not necessary for the Architect to confine openings to set dimensions

MARGINS:

PERFORATED GRILLE MARGINS can be varied to meet various conditions without affecting manufacturing costs.

METALS:

PERFORATED GRILLES are made in any sheet metal--Steel, Brass, Bronze, Copper, Commercial Bronze, Manganese Bronze, Aluminum, Nickel-Silver, Stainless Steel, Monel Metal, etc.

THICKNESS:

PERFORATED GRILLES in any of the above metals are now being perforated in thicknesses up to 3/16″ and 1/4″ thick.

Some plain lattice designs can be perforated in materials up to 5/16″ thick.

DIAMOND MANUFACTURING COMPANY
WYOMING - PENNSYLVANIA

DIAMOND Installations In Every State In The Union

ALABAMA
Merchants' National Bank Building, Mobile
U. S. Veterans' Hospital, Tuscaloosa

ARIZONA
Flagstaff Post Office, Flagstaff

ARKANSAS
United States Veterans' Hospital, Fayetteville
State Hospital, Benton

CALIFORNIA
San Diego State Teachers' College, San Diego
Veterans' Hospital, Palo Alto

COLORADO
U. S. Veterans' Hospital, Fort Lyon
Junior High School, Fort Collins

CONNECTICUT
Perrott Memorial Library, Sound Beach
St. Catherine's School, Riverside

DELAWARE
Legislative Building, Dover
Post Office, Seaford

DISTRICT OF COLUMBIA
St. Matthew's Church, Washington
Library of Congress Building, Washington

FLORIDA
Receiving Building, Tallahassee
United States Naval Air Station, Pensacola

GEORGIA
New Georgia State Prison, Reidsville
Medical Building, Warm Springs

IDAHO
Burggraff & Brennan Store, St. Anthony

ILLINOIS
United States Post Office, Chicago
U. S. Post Office, Geneva

INDIANA
Porter County Court House, Valpariso
Junior and Senior High School, Decatur

IOWA
Veterans' Hospital, Knoxville
University Theatre, Iowa City

KANSAS
First National Bank, Topeka
United States Veterans' Adm. Home, Leavenworth

KENTUCKY
Women's Detention Home, Pine Bluff
Veterans' Hospital, Lexington

LOUISIANA
"The Rebel"—Streamlined Train, New Orleans
Y. M. C. A. New Orleans

MAINE
Traipe Academy, Kittery
Portland Telephone Building, Portland

MARYLAND
United States Veterans' Hospital, Perry Point
John Street School No. 84, Baltimore

MASSACHUSETTS
Atlantic National Bank, Boston
Appleton Chapel, Harvard University, Cambridge
New England Tele. & Telegraph Co., Pittsfield

MICHIGAN
Guardian Detroit Bank, Detroit
Ford Motor Co.—Tool & Die Shop, Rouge Plant
City National Bank & Trust Co., Detroit

MINNESOTA
First National Bank, St. Paul
Veterans' Hospital, St. Cloud
Lowry Hotel, St. Paul

MISSISSIPPI
Veterans' Hospital, Biloxi
Domiciliary Mess Hall, Biloxi
Veterans' Hospital, Gulfport

MISSOURI
U. S. Post Office & Court House, Jefferson City
Daily Record Building, St. Louis
U. S. Court House, Kansas City

MONTANA
U. S. Post Office & Court House, Glasgow
U. S. Post Office, Missoula
High School, Malta

NEBRASKA
Holy Cross School, Omaha
Miller & Paine Dept. Store, Lincoln

NEW HAMPSHIRE
Gonic New Hampshire Power House, Gonic
U. S. Post Office, Manchester

NEW JERSEY
Claridge Hotel, Atlantic City
Pennsylvania Railroad Station, Atlantic City
N. J. State Hospital, Marlboro

NEW MEXICO
Municipal Building, Santa Fe
Carrie Tingley Hospital, Hot Springs

NEW YORK
Jamaica Court House, Jamaica
Ordinance & Eng. Laboratory, West Point
Bowery Savings Bank, New York City

NORTH CAROLINA
State Office Building, Raleigh
Bennet College, Greensboro

NORTH DAKOTA
Central High School, Devil's Lake

OHIO
First National Bank & Trust Co., Hamilton
Veterans' Hospital, Chillicothe
Masonic Temple, Lima

OKLAHOMA
Oklahoma State Office Building, Oklahoma City
U. S. Post Office, Muskogee

OREGON
Oregon State Library, Salem
University of Oregon

PENNSYLVANIA
Duquesne Club, Pittsburgh
Shippensburg State Teachers College, Shippensburg
Villanova College Gym, Villanova

RHODE ISLAND
Regional Senior High School, Providence
Faulk Building, Providence

SOUTH CAROLINA
Federal Land Bank, Columbia
U. S. Court House, Columbia

SOUTH DAKOTA
Sioux Sanitarium, Rapid City
Union Building, Brooklings

TENNESSEE
Tennessee Supreme Court Building, Nashville
Davidson County Court House, Nashville
Hermitage Hotel, Nashville

TEXAS
Rusk State Hospital, Rusk
U. S. Post Office, Huston
Fort Worth Post Office, Fort Worth

UTAH
Veterans' Hospital, Salt Lake City
Radio Station, Salt Lake City
U. S. Post Office Building, Provo

VERMONT
St. Albans Post Office, St. Albans
U. S. Post Office, Rutlant

VIRGINIA
American Bank & Trust Co., Richmond
Bedford Court House, Bedford
Hotel Roanoke, Roanoke

WASHINGTON
Normal School, Cheyney
Eastern State Hospital, Medical Lake

WEST VIRGINIA
St. Mary's Hospital, Clarksburg
West Virginia State Capitol, Charleston
Fidelity Trust Assoc., Wheeling
Y. M. C. A., Huntington

WISCONSIN
First National Bank, River Falls
Masonic Temple, Green Bay

WYOMING
University of Wyoming, Laramie
High School Addition, Cheyenne

ARCHITECTURAL GRILLES OF PERFORATED METAL

• CONTENTS - SECTION ONE

ARCHITECTURAL GRILLES

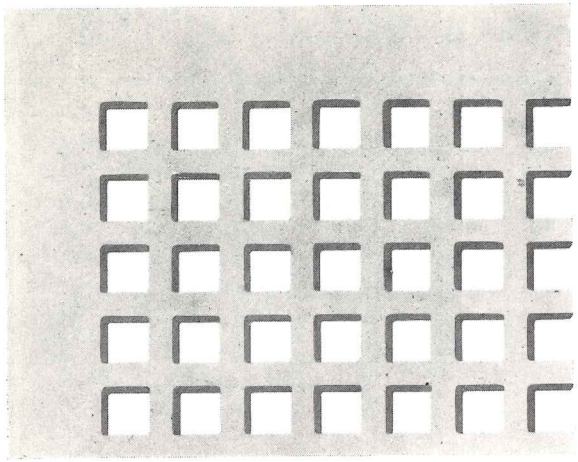
OF HEAVY PERFORATED METAL

Conventional Designs - Modernistic Designs Combination Designs - Sanitary Slot Designs - Sliding Dampers - Installation Methods - Framed Door Grilles

SECTION ONE

DIAMOND MANUFACTURING COMPANY
WYOMING - PENNSYLVANIA

¼ inch SQUARE PLAIN LATTICE GRILLE PATTERN • design A-23



ACTUAL SIZE

design A-23

1/4 inch MESH - 1/8 inch FRETWORK

45% OPEN AREA

Made To

48" Width - 120" Length

Larger in Sections - Paneled with Stiffners

Maximum Thickness

STEEL No. 12 USS — BRONZE 10 B & S — ALUMINUM 1/8"

STAINLESS STEEL No. 14 USS — MONEL No. 14 USS

45%
Open Area

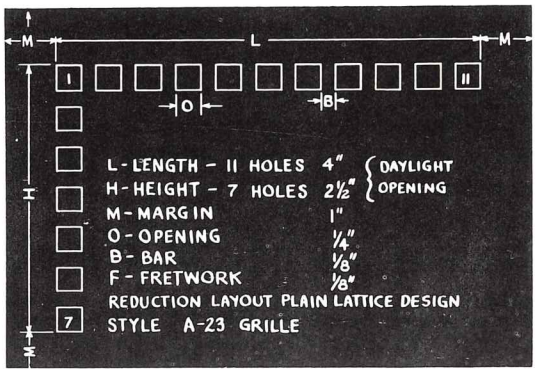


TABLE OF OPENING SIZES

No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes
1	¼"	31	11½"	61	22¾"	91	34"	121	45¼"
2	⅝"	32	11⅞"	62	23⅛"	92	34⅜"	122	45⅝"
3	1""	33	12¼"	63	23½"	93	34¾"	123	46"
4	1⅜"	34	12⅝"	64	23⅞"	94	35⅛"	124	46⅜"
5	1¾"	35	13"	65	24¼"	95	35½	125	46¾"
6	2⅛"	36	13⅜"	66	24⅝"	96	35⅞"	126	47⅛"
7	2½"	37	13¾"	67	25"	97	36¼"	127	47½"
8	2⅞"	38	14⅛"	68	25⅜"	98	36⅝"	128	47⅞"
9	3¼"	39	14½"	69	25¾"	99	37"	129	48¼"
10	3⅝"	40	14⅞"	70	26⅛"	100	37⅜"	139	48⅝"
11	4"	41	15¼"	71	26½"	101	37¾"	131	49"
12	4⅜"	42	15⅝"	72	26⅞"	102	38⅛"	132	49⅜
13	4¾"	43	16"	73	27¼"	103	38½"	133	49¾"
14	5⅛"	44	16⅜"	74	27⅝"	104	38⅞"	134	50¼"
15	5½"	45	16¾"	75	28"	105	39¼"	135	50⅝"
16	5⅞"	46	17⅛"	76	28⅜"	106	39⅝"	136	51"
17	6¼"	47	17½"	77	28¾"	107	40"	137	51⅜"
18	6⅝"	48	17⅞"	78	29⅛"	108	40⅜"	138	51¾"
19	7"	49	18¼"	79	29½"	109	40¾"	139	52⅛"
20	7⅜"	50	18⅝"	80	29⅞"	110	41⅛"	140	52½"
21	7¾"	51	19"	81	30¼"	111	41½"	141	52⅞"
22	8⅛"	52	19⅜"	82	30⅝"	112	41⅞"	42	53¼"
23	8½"	53	19¾"	83	31"	113	42¼"	143	53⅝"
24	8⅞"	54	20⅛"	84	31⅜"	114	42⅝"	144	54"
25	9¼"	55	20½"	85	31¾"	115	43"	145	54⅜"
26	9⅝"	56	20⅞"	86	32⅛"	116	43⅜"	146	54¾"
27	10"	57	21¼"	87	32½"	116	43¾"	147	55⅛"
28	10⅜"	58	21⅝"	88	32⅞"	118	44⅛"	148	55½"
29	10¾"	59	22"	89	33¼"	119	44½"	149	55⅞"
30	11⅛"	60	22⅜"	90	33⅝"	120	44⅞"	150	56¼"

DIAMOND GRILLES

ARCHITECTURAL GRILLES FOR ALL INDUSTRIAL USES

TABLE OF OPENING SIZES 5/16 - 3/8 - 1/2 PLAIN LATTICE GRILLE PATTERNS

No. of Holes	OPENING SIZES 5/16" Holes 3/16" Fret	3/8" Holes 3/16" Fret	1/2" Holes 1/8" Fret	1/2" Holes 3/16" Fret	No. of Holes	OPENING SIZES 5/16" Holes 3/16" Fret	3/8" Holes 3/16" Fret	1/2" Holes 1/8" Fret	1/2" Holes 3/16" Fret	No. of Holes	OPENING SIZES 5/16" Holes 3/16" Fret	3/8" Holes 3/16" Fret	1/2" Holes 1/8" Fret	1/2" Holes 3/16" Fret	No. of Holes	OPENING SIZES 5/16" Holes 3/16" Fret	3/8" Holes 3/16" Fret	1/2" Holes 1/8" Fret	1/2" Holes 3/16" Fret
1	5/16"	3/8"	1/2"	1/2"	26	12 13/16"	14 7/16"	16 1/8"	17 11/16"	51	25 5/16"	28 1/2"	31 3/4"	34 7/8"	76	37 13/16"	42 9/16"	47 3/8"	52 1/16"
2	13/16"	15/16"	1 1/8"	1 3/16"	27	13 5/16"	15"	16 3/4"	18 3/8"	52	25 13/16"	29 1/16"	32 3/8"	35 9/16"	77	38 5/16"	43 1/8"	48"	52 3/4"
3	1 5/16"	1 1/2"	1 3/4"	1 7/8"	28	13 13/16"	15 9/16"	17 3/8"	19 1/16"	53	26 5/16"	29 5/8"	33"	36 1/4"	78	38 13/16"	43 11/16"	48 5/8"	53 7/16"
4	1 13/16"	2 1/16"	2 3/8"	2 9/16"	29	14 5/16"	16 1/8"	18"	19 3/4"	54	26 13/16"	30 3/16"	33 5/8"	36 15/16"	79	39 5/16"	44 1/4"	49 1/4"	54 1/8"
5	2 5/16"	2 5/8"	3"	3 1/4"	30	14 13/16"	16 11/16"	18 5/8"	20 7/16"	55	27 5/16"	30 3/4"	34 1/4"	37 5/8"	80	39 13/16"	44 13/16"	49 7/8"	54 13/16"
6	2 13/16"	3 3/16"	3 5/8"	3 15/16"	31	15 5/16"	17 1/4"	19 1/4"	21 1/8"	56	27 13/16"	31 5/16"	34 7/8"	38 5/16"	81	40 5/16"	45 3/8"	50 1/2"	55 1/2"
7	3 5/16"	3 3/4"	4 1/4"	4 5/8"	32	15 13/16"	17 13/16"	19 7/8"	21 13/16"	57	28 5/16"	31 7/8"	35 1/2"	39"	82	40 13/16"	45 15/16"	51 1/8"	56 3/16"
8	3 13/16"	4 5/16"	4 7/8"	5 5/16"	33	16 5/16"	18 3/8"	20 1/2"	22 1/2"	58	28 13/16"	32 7/16"	36 1/8"	39 11/16"	83	41 5/16"	46 1/2"	51 3/4"	56 7/8"
9	4 5/16"	4 7/8"	5 1/2"	6"	34	16 13/16"	18 15/16"	21 1/8"	23 3/16"	59	29 5/16"	33"	36 3/4"	40 3/8"	84	41 13/16"	47 1/16"	52 3/8"	57 9/16"
10	4 13/16"	5 7/16"	6 1/8"	6 11/16"	35	17 5/16"	19 1/2"	21 3/4"	23 7/8"	60	29 13/16"	33 9/16"	37 3/8"	41 1/16"	85	42 5/16"	47 5/8"	53"	58 1/4"
11	5 5/16"	6"	6 3/4"	7 3/8"	36	17 13/16"	20 1/16"	22 3/8"	24 9/16"	61	30 5/16"	34 1/8"	38"	41 3/4"	86	42 13/16"	48 3/16"	53 5/8"	58 15/16"
12	5 13/16"	6 9/16"	7 3/8"	8 1/16"	37	18 5/16"	20 5/8"	23"	25 1/4"	62	30 13/16"	34 11/16"	38 5/8"	42 7/16"	87	43 5/16"	48 3/4"	54 1/4"	59 5/8"
13	6 5/16"	7 1/8"	8"	8 3/4"	38	18 13/16"	21 3/16"	23 5/8"	25 15/16"	63	31 5/16"	35 1/4"	39 1/4"	43 1/8"	88	43 13/16"	49 5/16"	54 7/8"	60 5/16"
14	6 13/16"	7 11/16"	8 5/8"	9 7/16"	39	19 5/16"	21 3/4"	24 1/4"	26 5/8"	64	31 13/16"	35 13/16"	39 7/8"	43 13/16"	89	44 5/16"	49 7/8"	55 1/2"	61"
15	7 5/16"	8 1/4"	9 1/4"	10 1/8"	40	19 13/16"	22 5/16"	24 7/8"	27 5/16"	65	32 5/16"	36 3/8"	40 1/2"	44 1/2"	90	44 13/16"	50 7/16"	56 1/8"	61 11/16"
16	7 13/16"	8 13/16"	9 7/8"	10 13/16"	41	20 5/16"	22 7/8"	25 1/2"	28"	66	32 13/16"	36 15/16"	41 1/8"	45 3/16"	91	45 5/16"	51"	56 3/4"	62 3/8"
17	8 5/16"	9 3/8"	10 1/2"	11 1/2"	42	20 13/16"	23 7/16"	26 1/8"	28 11/16"	67	33 5/16"	37 1/2"	41 3/4"	45 7/8"	92	45 13/16"	51 9/16"	57 3/8"	63 1/16"
18	8 13/16"	9 15/16"	11 1/8"	12 3/16"	43	21 5/16"	24"	26 3/4"	29 3/8"	68	33 13/16"	38 1/16"	42 3/8"	46 9/16"	93	46 5/16"	52 1/8"	58"	63 3/4"
19	9 5/16"	10 1/2"	11 3/4"	12 7/8"	44	21 13/16"	24 9/16"	27 3/8"	30 1/16"	69	34 5/16"	38 5/8"	43"	47 1/4"	94	46 13/16"	52 11/16"	58 5/8"	64 7/16"
20	9 13/16"	11 1/16"	12 3/8"	13 9/16"	45	22 5/16"	25 1/8"	28"	30 3/4"	70	34 13/16"	39 3/16"	43 5/8"	47 15/16"	95	47 5/16"	53 1/4"	59 1/4"	65 1/8"
21	10 5/16"	11 5/8"	13"	14 1/4"	46	22 13/16"	25 11/16"	28 5/8"	31 7/16"	71	35 5/16"	39 3/4"	44 1/4"	48 5/8"	96	47 13/16"	53 13/16"	59 7/8"	65 13/16"
22	10 13/16"	12 3/16"	13 5/8"	14 15/16"	47	23 5/16"	26 1/4"	29 1/4"	32 1/8"	72	35 13/16"	40 5/16"	44 7/8"	49 5/16"	97	48 5/16"	54 3/8"	60 1/2"	66 1/2"
23	11 5/16"	12 3/4"	14 1/4"	15 5/8"	48	23 13/16"	26 13/16"	29 7/8"	32 13/16"	73	36 5/16"	40 7/8"	45 1/2"	50"	98	48 13/16"	54 15/16"	61 1/8"	67 3/16"
24	11 13/16"	13 5/16"	14 7/8"	16 5/16"	49	24 5/16"	27 3/8"	30 1/2"	33 1/2"	74	36 13/16"	41 7/16"	46 1/8"	50 11/16"	99	49 5/16"	55 1/2"	61 3/4"	67 7/8"
25	12 5/16"	13 7/8"	15 1/2"	17"	50	24 13/16"	27 15/16"	31 1/8"	34 3/16"	75	37 5/16"	42"	46 3/4"	51 3/8"	100	49 13/16"	56 1/16"	62 3/8"	68 9/16"

MAXIMUM THICKNESS

DESIGN	STEEL	BRONZE	ALUMINUM	STAINLESS STEEL	MONEL
A-21	No. 10 U. S.	3/16 Inch	3/16 Inch	No. 12 U. S.	No. 12 U. S.
A-17	No. 10 U. S.	3/16 Inch	3/16 Inch	No. 12 U. S.	No. 12 U. S.
A-19	No. 12 U. S.	1/8 Inch	1/8 Inch	No. 14 U. S.	No. 14 U. S.
A- 6	No. 10 U. S.	3/16 Inch	3/16 Inch	No. 12 U. S.	No. 12 U. S.

Made To

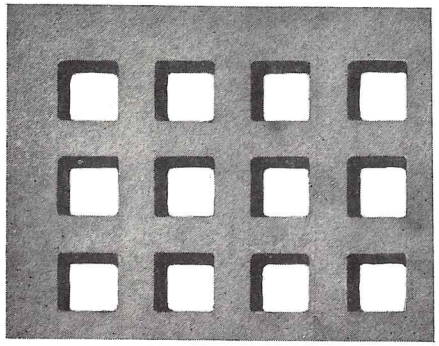
48" WIDTH -- 120" LENGTH

LARGER IN SECTIONS

PANELED WITH STIFFENERS

OF PERFORATED METAL

5/16 - 3/8 - 1/2 inch SQUARE PLAIN LATTICE GRILLE PATTERNS

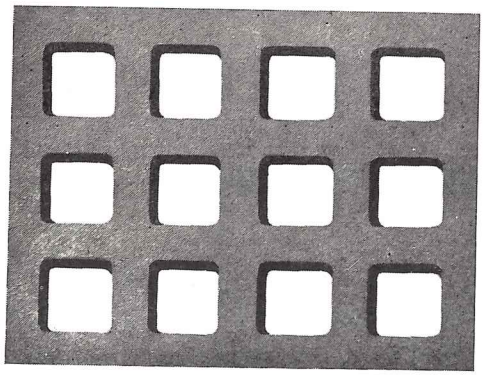


ACTUAL SIZE

design A-21

5/16" MESH - 3/16" FRETWORK

40% OPEN AREA

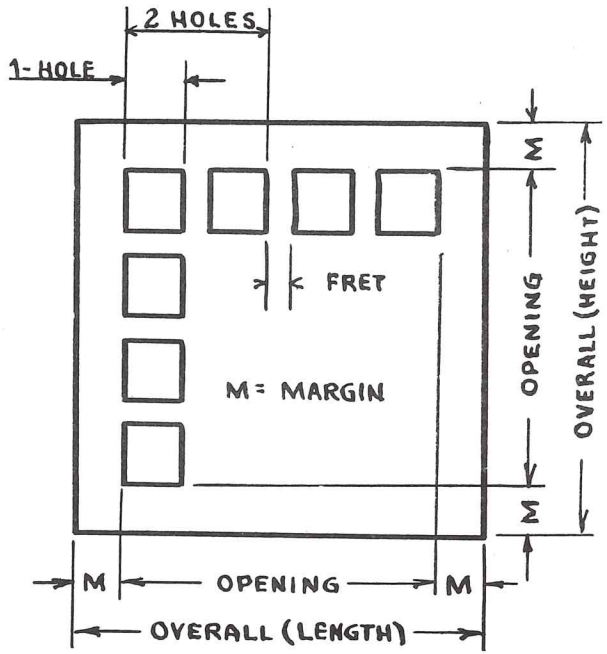


ACTUAL SIZE

design A-17

3/8" MESH - 3/16" FRETWORK

45% OPEN AREA

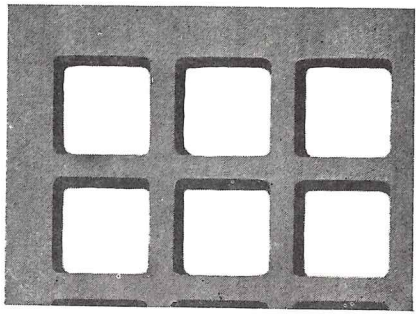


SEE OPPOSITE PAGE
FOR OPENING SIZES

SPECIFICATIONS

To Use When Ordering or Requesting Quotations

- QUANTITY
- OVERALL and OPENING SIZES
- APPROXIMATE MARGINS
- MATERIAL
- THICKNESS OR GAUGE
- DESIGN-USE OUR DESIGN No.
- FINISH
- SCREW HOLES -- LOCATION SIZE -- TYPE
- HAND HOLES -- SIZE -- LOCATION

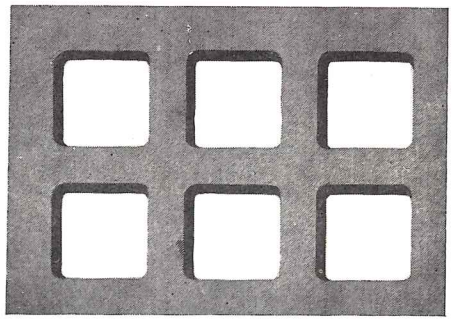


ACTUAL SIZE

design A-19

1/2" MESH - 1/8" FRETWORK

64% OPEN AREA



ACTUAL SIZE

design A-6

1/2" MESH - 3/16" FRETWORK

53% OPEN AREA

DIAMOND GRILLES

ARCHITECTURAL GRILLES FOR ALL INDUSTRIAL USES

TABLE OF OPENING SIZES 1/2 - 5/8 - 3/4 - 13/16 PLAIN LATTICE GRILLE PATTERNS

No. of Holes	OPENING SIZES 1/2" Holes 1/4" Fret	3/4" Holes 1/4" Fret	5/8" Holes 1/4" Fret	13/16" Holes 3/16" Fret
1	½"	¾"	⅝"	13/16"
2	1¼"	1¾"	1½"	1 13/16"
3	2"	2¾"	2⅜"	2 13/16"
4	2¾"	3¾"	3¼"	3 13/16"
5	3½"	4¾"	4⅛"	4 13/16"
6	4¼"	5¾"	5"	5 13/16"
7	5"	6¾"	5⅞"	6 13/16"
8	5¾"	7¾"	6¾"	7 13/16"
9	6½"	8¾"	7⅝"	8 13/16"
10	7¼"	9¾"	8½"	9 13/16"
11	8"	10¾"	9⅜"	10 13/16"
12	8¾"	11¾"	10¼"	11 13/16"
13	9½"	12¾"	11⅛"	12 13/16"
14	10¼"	13¾"	12"	13 13/16"
15	11"	14¾"	12⅞"	14 13/16"
16	11¾"	15¾"	13¾"	15 13/16"
17	12½"	16¾"	14⅝"	16 13/16"
18	13¼"	17¾"	15½"	17 13/16"
19	14"	18¾"	16⅜"	18 13/16"
20	14¾"	19¾"	17¼"	19 13/16"
21	15½"	20¾"	18⅛"	20 13/16"
22	16¼"	21¾"	19"	21 13/16"
23	17"	22¾"	19⅞"	22 13/16"
24	17¾"	23¾"	20¾"	23 13/16"
25	18½"	24¾"	21⅝"	24 13/16"
26	19¼"	25¾"	22½"	25 13/16"
27	20"	26¾"	23⅜"	26 13/16"
28	20¾"	27¾"	24¼"	27 13/16"
29	21½"	28¾"	25⅛"	28 13/16"
30	22¼"	29¾"	26"	29 13/16"
31	23"	30¾"	26⅞"	30 13/16"
32	23¾"	31¾"	27¾"	31 13/16"
33	24½"	32¾"	28⅝"	32 13/16"
34	25¼"	33¾"	29½"	33 13/16"
35	26"	34¾"	30⅜"	34 13/16"
36	26¾"	35¾"	31¼"	35 13/16"
37	27½"	36¾"	32⅛"	36 13/16"
38	28¼"	37¾"	33"	37 13/16"
39	29"	38¾"	33⅞"	38 13/16"
40	29¾"	39¾"	34¾"	39 13/16"
41	30½"	40¾"	35⅝"	40 13/16"
42	31¼"	41¾"	36½"	41 13/16"
43	32"	42¾"	37⅜"	42 13/16"
44	32¾"	43¾"	38¼"	43 13/16"
45	33½"	44¾"	39⅛"	44 13/16"
46	34¼"	45¾"	40"	45 13/16"
47	35"	46¾"	40⅞"	46 13/16"
48	35¾"	47¾"	41¾"	47 13/16"
49	36½"	48¾"	42⅝"	48 13/16"
50	37¼"	49¾"	43½"	49 13/16"
51	38"	50¾"	44⅜"	50 13/16"
52	38¾"	51¾"	45¼"	51 13/16"
53	39½"	52¾"	46⅛"	52 13/16"
54	40¼"	53¾"	47"	53 13/16"
55	41"	54¾"	47⅞"	54 13/16"
56	41¾"	55¾"	48¾"	55 13/16"
57	42½"	56¾"	49⅝"	56 13/16"
58	43¼"	57¾"	50½"	57 13/16"
59	44"	58¾"	51⅜"	58 13/16"
60	44¾"	59¾"	52¼"	59 13/16"
61	45½"	60¾"	53⅛"	60 13/16"
62	46¼"	61¾"	54"	61 13/16"
63	47"	62¾"	54⅞"	62 13/16"
64	47¾"	63¾"	55¾"	63 13/16"
65	48½"	64¾"	56⅝"	64 13/16"
66	49¼"	65¾"	57½"	65 13/16"
67	50"	66¾"	58⅜"	66 13/16"
68	50¾"	67¾"	59¼"	67 13/16"
69	51½"	68¾"	60⅛"	68 13/16"
70	52¼"	69¾"	61"	69 13/16"
71	53"	70¾"	61⅞"	70 13/16"
72	53¾"	71¾"	62¾"	71 13/16"
73	54½"	72¾"	63⅝"	72 13/16"
74	55¼"	73¾"	64½"	73 13/16"
75	56"	74¾"	65⅜"	74 13/16"
76	56¾"	75¾"	66¼"	75 13/16"
77	57½"	76¾"	67⅛"	76 13/16"
78	58¼"	77¾"	68"	77 13/16"
79	59"	78¾"	68⅞"	78 13/16"
80	59¾"	79¾"	69¾"	79 13/16"
81	60½"	80¾"	70⅝"	80 13/16"
82	61¼"	81¾"	71½"	81 13/16"
83	62"	82¾"	72⅜"	82 13/16"
84	62¾"	83¾"	73¼"	83 13/16"
85	63½"	84¾"	74⅛"	84 13/16"
86	64¼"	85¾"	75"	85 13/16"
87	65"	86¾"	75⅞"	86 13/16"
88	65¾"	87¾"	76¾"	87 13/16"
89	66½"	88¾"	77⅝"	88 13/16"
90	67¼"	89¾"	78½"	89 13/16"
91	68"	90¾"	79⅜"	90 13/16"
92	68¾"	91¾"	80¼"	91 13/16"
93	69½"	92¾"	81⅛"	92 13/16"
94	70¼"	93¾"	82"	93 13/16"
95	71"	94¾"	82⅞"	94 13/16"
96	71¾"	95¾"	83¾"	95 13/16"
97	72½"	96¾"	84⅝"	96 13/16"
98	73¼"	97¾"	85½"	97 13/16"
99	74"	98¾"	86⅜"	98 13/16"
100	74¾"	99¾"	87¼"	99 13/16"

MAXIMUM THICKNESS

DESIGN	STEEL	BRONZE	ALUMINUM	STAINLESS STEEL	MONEL
A- 1	1/4"	1/4"	1/4"	No. 10 U. S.	No. 10 U. S.
A- 2	1/4"	1/4"	1/4"	No. 10 U. S.	No. 10 U. S.
A-10	1/4"	1/4"	1/4"	No. 10 U. S.	No. 10 U. S.
A-20	No. 10 U. S.	3/16"	3/16"	No. 12 U. S.	No. 12 U. S.

Made To

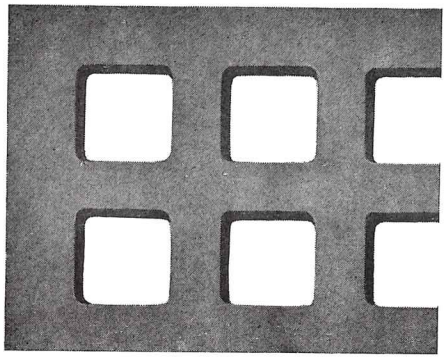
48" WIDTH -- 120" LENGTH

LARGER IN SECTIONS

PANELED WITH STIFFENERS

OF PERFORATED METAL

1/2 - 5/8 - 3/4 - 13/16 inch SQUARE PLAIN LATTICE PATTERNS

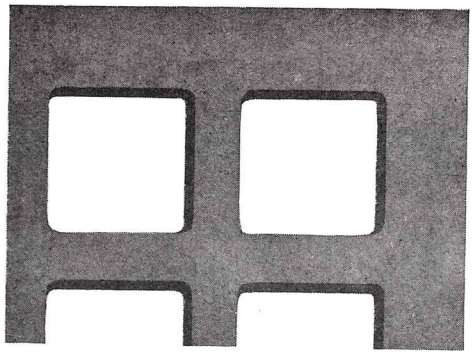


ACTUAL SIZE

design A-1

1/2" MESH - 1/4" FRETWORK

45% OPEN AREA

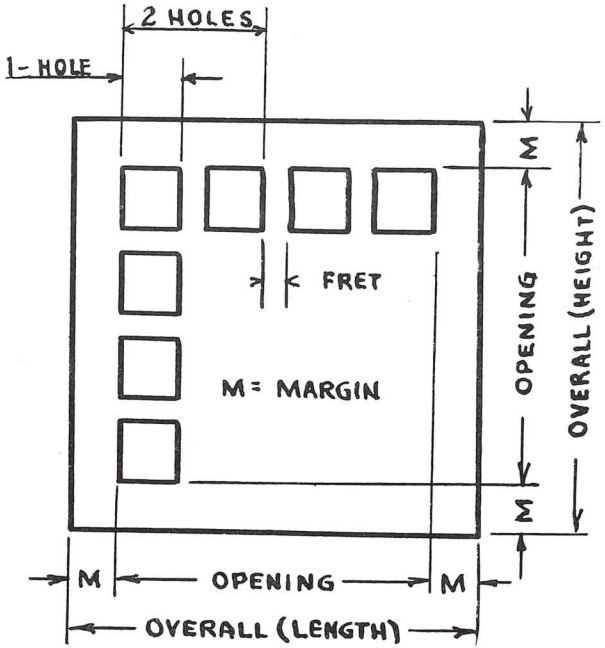


ACTUAL SIZE

design A-2

3/4" MESH - 1/4" FRETWORK

57% OPEN AREA

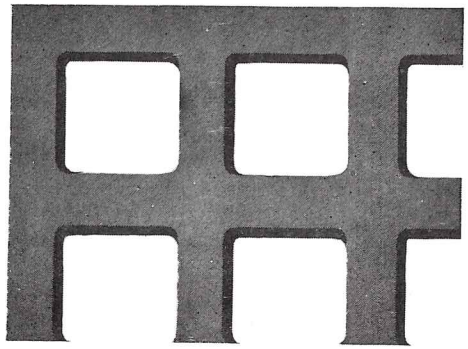


SEE OPPOSITE PAGE
FOR OPENING SIZES

SPECIFICATIONS

To Use When Ordering or Requesting Quotations

- QUANTITY
- OVERALL and OPENING SIZES
- APPROXIMATE MARGINS
- MATERIAL
- THICKNESS OR GAUGE
- DESIGN-USE OUR DESIGN No.
- FINISH
- SCREW HOLES -- LOCATION SIZE -- TYPE
- HAND HOLES -- SIZE -- LOCATION

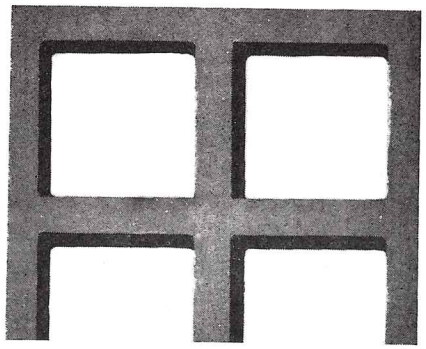


ACTUAL SIZE

design A-10

5/8" MESH - 1/4" FRETWORK

51% OPEN AREA



ACTUAL SIZE

design A-20

13/16" MESH - 3/16" FRETWORK

67% OPEN AREA

DIAMOND GRILLES

ARCHITECTURAL GRILLES FOR ALL INDUSTRIAL USES

TABLE OF OPENING SIZES 13/16 - 7/8 - 1 PLAIN LATTICE GRILLE PATTERNS

No. of Holes	OPENING SIZES 13/16" Holes 3/8" Fret	7/8" Holes 3/16" Fret	7/8" Holes 1/4" Fret	1" Holes 1/4" Fret
1	13/16"	7/8"	7/8"	1"
2	2"	1 15/16"	2"	2 1/4"
3	3 13/16"	3"	3 1/8"	3 1/2"
4	4 3/8"	4 1/16"	4 1/4"	4 3/4"
5	5 9/16"	5 1/8"	5 3/8"	6"
6	6 3/4"	6 3/16"	6 1/2"	7 1/4"
7	7 15/16"	7 1/4"	7 5/8"	8 1/2"
8	9 1/8"	8 5/16"	8 3/4"	9 3/4"
9	10 5/16"	9 3/8"	9 7/8"	11"
10	11 1/2"	10 7/16"	11"	12 1/4"
11	12 11/16"	11 1/2"	12 1/8"	13 1/2"
12	13 7/8"	12 9/16"	13 1/4"	14 3/4"
13	15 1/16"	13 5/8"	14 3/8"	16"
14	16 1/4"	14 11/16"	15 1/2"	17 1/4"
15	17 7/16"	15 3/4"	16 5/8"	18 1/2"
16	18 5/8"	16 13/16"	17 3/4"	19 3/4"
17	19 13/16"	17 7/8"	18 7/8"	21"
18	21"	18 15/16"	20"	22 1/4"
19	22 3/16"	20"	21 1/8"	23 1/2"
20	23 3/8"	21 1/16"	22 1/4"	24 3/4"
21	24 9/16"	22 1/8"	23 3/8"	26"
22	25 3/4"	23 3/16"	24 1/2"	27 1/4"
23	26 15/16"	24 1/4"	25 5/8"	28 1/2"
24	28 1/8"	25 5/16"	26 3/4"	29 3/4"
25	29 5/16"	26 3/8"	27 7/8"	31"

No. of Holes	OPENING SIZES 13/16" Holes 3/8" Fret	7/8" Holes 3/16" Fret	7/8" Holes 1/4" Fret	1" Holes 1/4" Fret
26	30 1/2"	27 7/16"	29"	32 1/4"
27	31 11/16"	28 1/2"	30 1/8"	33 1/2"
28	32 7/8"	29 9/16"	31 1/4"	34 3/4"
29	34 1/16"	30 5/8"	32 3/8"	36"
30	35 1/4"	31 11/16"	33 1/2"	37 1/4"
31	36 7/16"	32 3/4"	34 5/8"	38 1/2"
32	37 5/8"	33 13/16"	35 3/4"	39 3/4"
33	38 13/16"	34 7/8"	36 7/8"	41"
34	40"	35 15/16"	38"	42 1/4"
35	41 3/16"	37"	39 1/8"	43 1/2"
36	42 3/8"	38 1/16"	40 1/4"	44 3/4"
37	43 9/16"	39 1/8"	41 3/8"	46"
38	44 3/4"	40 5/16"	42 1/2"	47 1/4"
39	45 15/16"	41 1/4"	43 5/8"	48 1/2"
40	47 1/8"	42 5/16"	44 3/4"	49 3/4"
41	48 5/16"	43 3/8"	45 7/8"	51"
42	49 1/2"	44 7/16"	47"	52 1/4"
43	50 11/16"	45 1/2"	48 1/8"	53 1/2"
44	51 7/8"	46 9/16"	49 1/4"	54 3/4"
45	53 1/16"	47 5/8"	50 3/8"	56"
46	54 1/4"	48 11/16"	51 1/2"	57 1/4"
47	55 7/16"	49 3/4"	52 5/8"	58 1/2"
48	56 5/8"	50 13/16"	53 3/4"	59 3/4"
49	57 13/16"	51 7/8"	54 7/8"	61"
50	59"	52 15/16"	56"	6 1/4"

No. of Holes	OPENING SIZES 13/16" Holes 3/8" Fret	7/8" Holes 3/16" Fret	7/8" Holes 1/4" Fret	1" Holes 1/4" Fret
51	60 3/16"	54"	57 1/8"	63 1/2"
52	61 3/8"	55 1/16"	58 1/4"	64 3/4"
53	62 9/16"	56 1/8"	59 3/8"	66"
54	63 3/4"	57 3/16"	60 1/2"	67 1/4"
55	64 15/16"	58 1/4"	61 5/8"	68 1/2"
56	66 1/8"	59 5/16"	62 3/4"	69 3/4"
57	67 5/16"	60 3/8"	63 7/8"	71"
58	68 1/2"	61 7/16"	65"	72 1/4"
59	69 11/16"	62 1/2"	66 1/8"	73 1/2"
60	70 7/8"	63 9/16"	67 1/4"	74 3/4"
61	72 1/16"	64 5/8"	68 3/8"	76"
62	73 1/4"	65 11/16"	69 1/2"	77 1/4"
63	74 7/16"	66 3/4"	70 5/8"	78 1/2"
64	75 5/8"	67 13/16"	71 3/4"	79 3/4"
65	76 13/16"	68 7/8"	72 7/8"	81"
66	78"	69 15/16"	74"	82 1/4"
67	79 3/16"	71"	75 1/8"	83 1/2"
68	80 3/8"	72 1/16"	76 1/4"	84 3/4"
69	81 9/16"	73 1/8"	77 3/8"	86"
70	82 3/4"	74 3/16"	78 1/2"	87 1/4"
71	83 15/16"	75 1/4"	79 5/8"	88 1/2"
72	85 1/8"	76 5/16"	80 3/4"	89 3/4"
73	86 15/16"	77 3/8"	81 7/8"	91"
74	87 1/2"	78 7/16"	83"	92 1/4"
75	88 11/16"	79 1/2"	84 1/8"	93 1/2"

No. of Holes	OPENING SIZES 13/16" Holes 3/8" Fret	7/8" Holes 3/16" Fret	7/8" Holes 1/4" Fret	1" Holes 1/4" Fret
76	89 7/8"	80 9/16"	85 1/4"	94 3/4"
77	91 1/16"	81 5/8"	86 3/8"	96"
78	92 1/4"	82 11/16"	87 1/2"	97 1/4"
79	93 7/16"	83 3/4"	88 5/8"	98 1/2"
80	94 5/8"	84 13/16"	89 3/4"	99 3/4"
81	95 13/16"	85 7/8"	90 7/8"	101"
82	97"	86 15/16"	92"	102 1/4"
83	98 3/16"	88"	93 1/8"	103 1/2"
84	99 3/8"	89 1/16"	94 1/4"	104 3/4"
85	100 9/16"	90 1/8"	95 3/8"	106"
86	101 3/4"	91 3/16"	96 1/2"	107 1/4"
87	102 15/16"	92 1/4"	97 5/8"	108 1/2"
88	104 1/8"	93 5/16"	98 3/4"	109 3/4"
89	105 5/16"	94 3/8"	99 7/8"	111"
90	106 1/2"	95 7/16"	101"	112 1/4"
91	107 11/16"	96 1/2"	102 1/8"	113 1/2"
92	108 7/8"	97 9/16"	103 1/4"	114 3/4"
93	110 1/16"	98 5/8"	104 3/8"	116"
94	111 1/4"	99 11/16"	105 1/2"	117 1/4"
95	112 7/16"	100 3/4"	106 5/8"	118 1/2"
96	113 5/8"	101 13/16"	107 3/4"	119 3/4"
97	114 13/16"	102 7/8"	108 7/8"	121"
98	116"	103 15/16"	110"	122 1/4"
99	117 3/16"	105"	111 1/8"	123 1/2"
100	118 3/8"	106 1/16"	112 1/4"	124 3/4"

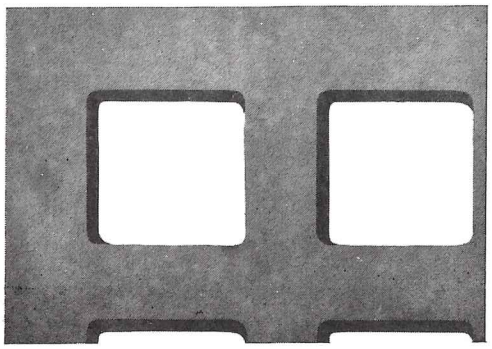
MAXIMUM THICKNESS

DESIGN	STEEL	BRONZE	ALUMINUM	STAINLESS STEEL	MONEL
A-18	1/4"	1/4"	1/4"	3/16"	3/16"
A-3	No. 10 U. S.	3/16"	3/16"	No. 12 U. S.	No. 12 U. S.
A-7	1/4"	1/4"	1/4"	No. 10 U. S.	No. 10 U. S.
A-4	1/4"	1/4"	1/4"	No. 10 U. S.	No. 10 U. S.

Made To
48" WIDTH -- 120" LENGTH
LARGER IN SECTIONS
PANELED WITH STIFFENERS

OF PERFORATED METAL

13/16 - 7/8 - 1 inch SQUARE PLAIN LATTICE GRILLE PATTERNS

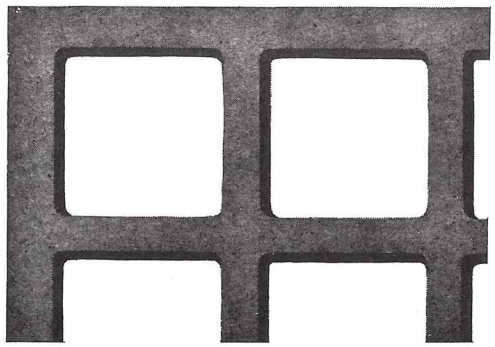


ACTUAL SIZE

design A-18

13/16" MESH - 3/8" FRETWORK

47% OPEN AREA

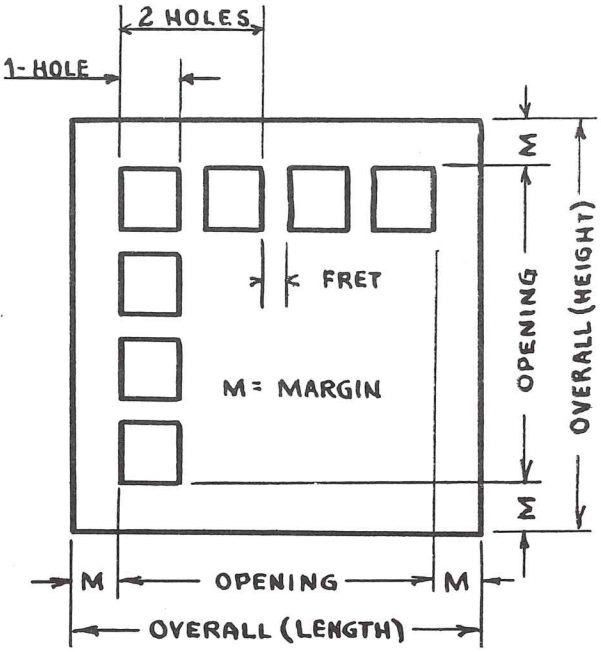


ACTUAL SIZE

design A-3

7/8" MESH - 3/16" FRETWORK

68% OPEN AREA

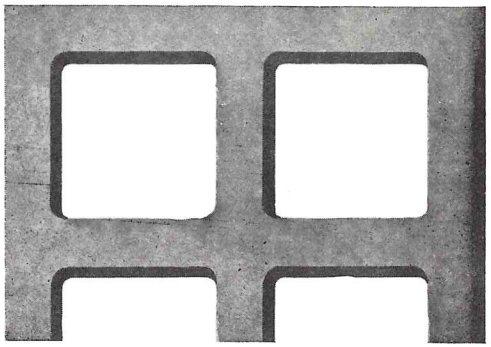


SEE OPPOSITE PAGE
FOR OPENING SIZES

SPECIFICATIONS

To Use When Ordering or Requesting Quotations

- QUANTITY
- OVERALL and OPENING SIZES
- APPROXIMATE MARGINS
- MATERIAL
- THICKNESS OR GAUGE
- DESIGN-USE OUR DESIGN No.
- FINISH
- SCREW HOLES -- LOCATION SIZE -- TYPE
- HAND HOLES -- SIZE -- LOCATION

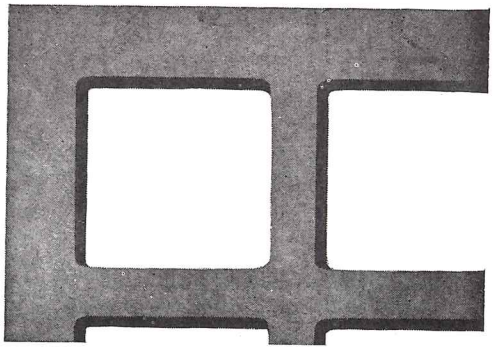


ACTUAL SIZE

design A-7

7/8" MESH - 1/4" FRETWORK

61% OPEN AREA



ACTUAL SIZE

design A-4

1" MESH - 1/4" FRETWORK

64% OPEN AREA

DIAMOND GRILLES

ARCHITECTURAL GRILLES FOR ALL INDUSTRIAL USES

TABLE OF OPENING SIZES 1 - 1-1/4 - 1-3/8 - PLAIN LATTICE GRILLE PATTERNS

No. of Holes	OPENING SIZES				No. of Holes	OPENING SIZES				No. of Holes	OPENING SIZES				No. of Holes	OPENING SIZES			
	1" Holes 5/16" Fret	1--1/4" Holes 3/8" Fret	1" Holes 1/2" Fret	1--3/8" Holes 3/8" Fret		1" Holes 5/16" Fret	1--1/4" Holes 3/8" Fret	1" Holes 1/2" Fret	1--3/8" Holes 3/8" Fret		1" Holes 5/16" Fret	1--1/4" Holes 3/8" Fret	1" Holes 1/2" Fret	1--3/8" Holes 3/8" Fret		1" Holes 5/16" Fret	1--1/4" Holes 3/8" Fret	1" Holes 1/2" Fret	1--3/8" Holes 3/8" Fret
1		1¼"	1"		26	33 13/16"	41⅞"	38½"	45⅛"	51	66⅝"	82½"	76"	88⅞"	76	99 7/16"	123⅛"	113½"	132⅝"
2	2 5/16"	2⅞"	2½"	3⅛"	27	35⅛"	43½"	40"	46⅞"	52	67 15/16"	84⅛"	77½"	90⅝"	77	100¾"	124¾"	115"	134⅜"
3	3⅝"	4½"	4"	4⅞"	28	36 7/16"	45⅛"	41½"	48⅝"	53	69¼"	85¾"	79"	92⅜"	78	102 1/16"	126⅜"	116½"	136⅛"
4	4 15/16"	6⅛"	5½"	6⅝"	29	37¾"	46¾"	43"	50⅜"	54	70 9/16"	87⅜"	80½"	94⅛"	79	103⅜"	128"	118"	137⅞"
5	6¼"	7¾"	7"	8⅜"	30	39 1/16"	48⅜"	44½"	52⅛"	55	71⅞"	89"	82"	95⅞"	80	104 11/16"	129⅝"	119½"	139⅝"
6	7 9/16"	9⅜"	8½"	10⅛"	31	40⅜"	50"	46"	53⅞"	56	73 3/16"	90⅝"	83½"	97⅝"	81	106"	131¼"	121"	141⅜"
7	8⅞"	11"	10"	11⅞"	32	41 11/16"	51⅜"	47½"	55⅝"	57	74½"	92¼"	85"	99⅜"	82	107 5/16"	132⅞"	122½"	143⅛"
8	10 3/16"	12⅝"	11½"	13⅝"	33	43"	53¼"	49"	57⅜"	58	75 13/16"	93⅞"	86½"	101⅛"	83	108⅝"	134½"	124"	144⅞"
9	11½"	14¼"	13"	15⅜"	34	44 5/16"	54⅞"	50½"	59⅛"	59	77⅛"	95½"	88"	102⅞"	84	109 15/16"	136⅛"	125½"	146⅝"
10	12 13/16"	15⅞"	14½"	17⅛"	35	45⅝"	56½"	52"	60⅞"	60	78 7/16"	97⅛"	89½"	104⅝"	85	111¼"	137¾"	127"	148⅜"
11	14⅛"	17½"	16"	18⅞"	36	46 15/16"	58⅛"	53½"	62⅝"	61	79¾"	98¾"	91"	106⅜"	86	112 9/16"	139⅜"	128½"	
12	15 7/16"	19⅛"	17½"	20⅝"	37	48¼"	59¾"	55"	64⅜"	62	81 1/16"	100⅜"	92½"	108⅛"	87	113⅞"	141"	130"	
13	16¾"	20¾"	19"	22⅜"	38	49 9/16"	61⅜"	56½"	66⅛"	63	82⅜"	102"	94"	109⅞"	88	115 3/16"	142⅝"	131½"	
14	18 1/16"	22⅜"	20½"	24⅛"	39	50⅞"	63"	58"	67⅞"	64	83 11/16"	103⅝"	95½"	111⅝"	89	116½"	144¼"	133"	
15	19⅜"	24"	22"	25⅞"	40	52 3/16"	64⅝"	59½"	69⅝"	65	85"	105¼"	97"	113⅜"	90	117 13/16"	145⅞"	134½"	
16	20 11/16"	25⅝"	23½"	27⅝"	41	53½"	66¼"	61"	71⅜"	66	86 5/16"	106⅞"	98½"	115⅛"	91	119⅛"	147½"	136"	
17	22"	27¼"	25"	29⅜"	42	54 13/16"	67⅞"	62½"	73⅛"	67	87⅝"	10 ½"	100"	116⅞"	92	120 7/16"	149⅛"	137½"	
18	23 5/16"	28⅞"	26½"	31⅛"	43	56⅛"	69½"	64"	74⅞"	68	88 15/16"	110⅛"	101½"	118⅝"	93	121¾"	150¾"	139"	
19	24⅝"	30½"	28"	32⅞"	44	57 7/16"	71⅛"	65½"	76⅝"	69	90¼"	111¾"	103"	120⅜"	94	123 1/16"	152⅜"	140½"	
20	25 15/16"	32⅛"	29½"	34⅝"	45	58¾"	72¾"	67"	78⅜"	70	91 9/16"	113⅜"	104½"	122⅛"	95	124⅜"	154"	142"	
21	27¼"	33¾"	31"	36⅜"	46	60 1/16"	74⅜"	68½"	80⅛"	71	92⅞"	115"	106"	123⅞"	96	125 11/16"	155⅝"	143½"	
22	28 9/16"	35⅜"	32½"	38⅛"	47	61⅜"	76"	70"	81⅞"	72	94 3/16"	116⅝"	107½"	125⅝"	97	127"	157¼"	145"	
23	29⅞"	37"	34"	39⅞"	48	62 11/16"	77⅝"	71½"	83⅝"	73	95½"	118¼"	109"	127⅜"	98	128 5/16"	158⅞"	146½"	
24	31 3/16"	38⅝"	35½"	41⅝"	49	64"	79¼"	73"	85⅜"	74	96 13/16"	119⅞"	110½"	129⅛"	99	129⅝"	160½"	148"	
25	32½"	40¼"	37"	43⅜"	50	65 5/16"	80⅞"	74½"	87⅛"	75	98⅛"	121½"	112"	130⅞"	100	130 15/16"	162⅛"	149½"	

MAXIMUM THICKNESS

DESIGN	STEEL	BRONZE	ALUMINUM	STAINLESS STEEL	MONEL
A-8	1/4"	5/16"	5/16"	No. 10 U. S.	No. 10 U. S.
A-5	1/4"	1/4"	1/4"	No. 10 U. S.	No. 10 U. S.
A-9	1/4"	1/4"	1/4"	No. 10 U. S.	No. 10 U. S.
A-11	1/4"	1/4"	1/4"	No. 10 U. S.	No. 10 U. S.

Made To

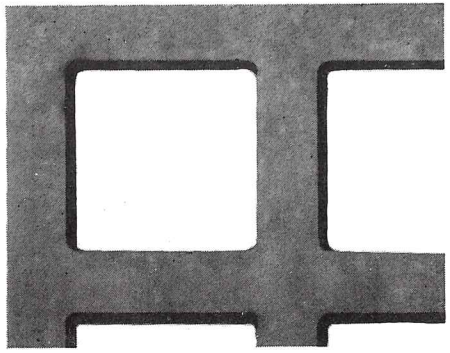
48" WIDTH -- 120" LENGTH

LARGER IN SECTIONS

PANELED WITH STIFFENERS

OF PERFORATED METAL

1 - 1-1/4 - 1-3/8 inch SQUARE PLAIN LATTICE GRILLE PATTERNS

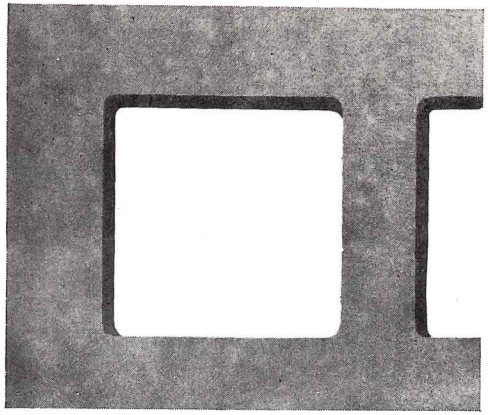


ACTUAL SIZE

design A-8

1" MESH - 5/16" FRETWORK

54% OPEN AREA

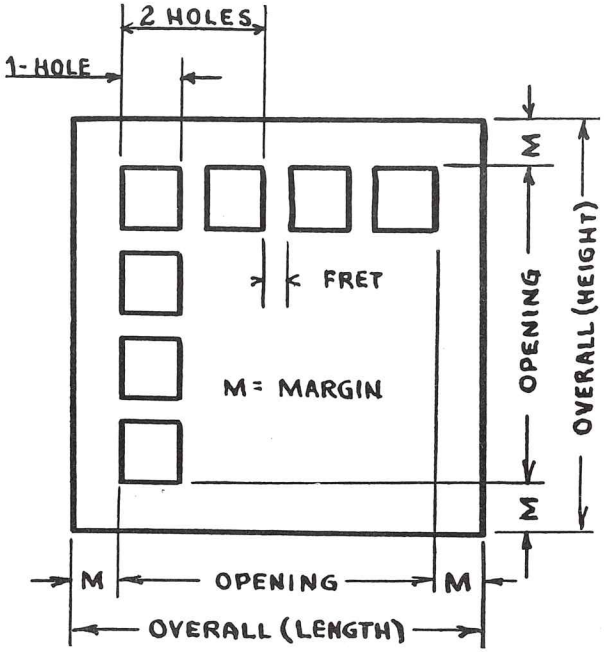


ACTUAL SIZE

design A-11

1-1/4" MESH - 3/8" FRETWORK

59% OPEN AREA

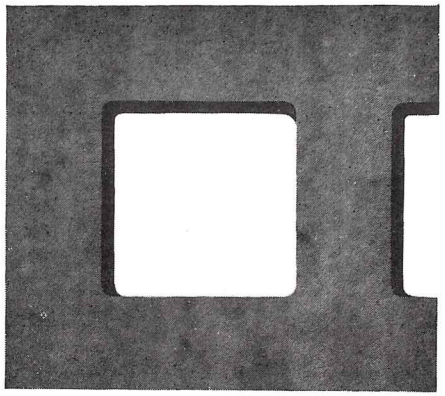


SEE OPPOSITE PAGE
FOR OPENING SIZES

SPECIFICATIONS

To Use When Ordering or Requesting Quotations

- QUANTITY
- OVERALL and OPENING SIZES
- APPROXIMATE MARGINS
- MATERIAL
- THICKNESS OR GAUGE
- DESIGN-USE OUR DESIGN No.
- FINISH
- SCREW HOLES -- LOCATION SIZE -- TYPE
- HAND HOLES -- SIZE -- LOCATION

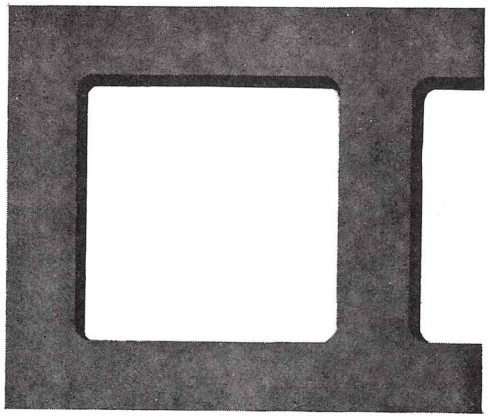


ACTUAL SIZE

design A-9

1" MESH - 1/2" FRETWORK

44% OPEN AREA



ACTUAL SIZE

design A-5

1-3/8" MESH - 3/8" FRETWORK

62% OPEN AREA

DIAMOND GRILLES

ARCHITECTURAL GRILLES FOR ALL INDUSTRIAL USES

TABLE OF OPENING SIZES 1-1/2 - 2 - 2-1/2 - PLAIN LATTICE GRILLE PATTERNS

No. of Holes	OPENING SIZES 1--1/2" Holes 3/8" Fret	2" Holes 1/4" Fret	2" Holes 3/8" Fret	2--1/2" Holes 1/4" Fret
1	1½"	2"	2"	2½"
2	3⅜"	4¼"	4⅜"	5¼"
3	5¼"	6½"	6¾"	8"
4	7⅛"	8¾"	9⅛"	10¾"
5	9"	11"	11½"	13½"
6	10⅞"	13¼"	13⅞"	16¼"
7	12¾"	15½"	16¼"	19"
8	14⅝"	17¾"	18⅝"	21¾"
9	16½"	20"	21"	24½"
10	18⅜"	22¼"	23⅜"	27¼"
11	20¼"	24½"	25¾"	30"
12	22⅛"	26¾"	28⅛"	32¾"
13	24"	29"	30½"	35½"
14	25⅞"	31¼"	32⅞"	38¼"
15	27¾"	33½"	35¼"	41"
16	29⅝"	35¾"	37⅝"	43¾"
17	31½"	38"	40"	46½"
18	33⅜"	40¼"	42⅜"	49¼"
19	35¼"	42½"	46¾"	52"
20	37⅛"	44¾"	49⅛"	54¾"
21	39"	47"	51½"	57½"
22	40⅞"	49¼"	53⅞"	60¼"
23	42¾"	51½"	56¼"	63"
24	44⅝"	53¾"	58⅝"	65¾"
25	46½"	56"	61"	68½"
26	48⅜"	58¼"	63⅜"	71¼"
27	50¼"	60½"	65¾"	74"
28	52⅛"	62¾"	68⅛"	76¾"
29	54"	65"	70½"	79½"
30	55⅞"	67¼"	72⅞"	82¼"
31	57¾"	69½"	75¼"	85"
32	59⅝"	71¾"	77⅝"	87¾"
33	61½"	74"	80"	90½"
34	63⅜"	76¼"	82⅜"	93¼"
35	65¼"	78½"	84¾"	96"
36	67⅛"	80¾"	87¼"	98¾"
37	69"	83"	89½"	101½"
38	70⅞"	85¼"	91⅞"	104¼"
39	72¾"	87½"	93¼"	107"
40	74⅝"	89¾"	96⅝"	109¾"
41	76½"	92"	99"	112½"
42	78⅜"	94¼"	101⅜"	115¼"
43	80¼"	96½"	103¾"	118"
44	82⅛"	98¾"	106⅛"	120¾"
45	84"	101"	108½"	123½"
46	85⅞"	103¼"	110⅞"	126¼"
47	87¾"	105½"	113¼"	129"
48	89⅝"	107¾"	115⅝"	131¾"
49	91½"	110"	118"	134½"
50	93⅜"	112¼"	120⅜"	137¼"
51	95¼"	114½"	122¾"	140"
52	97⅛"	116¾"	125⅛"	142¾"
53	99"	119"	127½"	145½"
54	100⅞"	121¼"	129⅞"	148¼"
55	102¾"	123½"	132¼"	151"
56	104⅝"	125¾"	134⅝"	153¾"
57	106½"	128"	137"	156½"
58	108⅜"	130¼"	139⅜"	159¼"
59	110¼"	132½"	141¾"	162"
60	112⅛"	134¾"	144⅛"	164¾"
61	114"	137"	146½"	167½"
62	115⅞"	139¼"	148⅞"	170¼"
63	117¾"	141½"	151¼"	173"
64	119⅝"	143¾"	153⅝"	175¾"
65	121½"	146"	156"	178½"
66	123⅜"	148¼"	158⅜"	181¼"
67	125¼"	150½"	160¾"	184"
68	127⅛"	152¾"	163⅛"	186¾"
69	129"	155"	165½"	189½"
70	130⅞"	157¼"	167⅞"	192¼"
71	132¾"	159½"	170¼"	195"
72	134⅝"	161¾"	172⅝"	197¾"
73	136½"	164"	175"	200½"
74	138⅜"	166¼"	177⅜"	203¼"
75	140¼"	168½"	179¾"	206"
76	142⅛"	170¾"	182⅛"	208¾"
77	144"	173"	184½"	211½"
78	145⅞"	175¼"	186⅞"	214¼"
79	147¾"	177½"	189¼"	216"
80	149⅝"	179¾"	191⅝"	219¾"
81	151½"	182"	194"	222½"
82	153⅜"	184¼"	196⅜"	225¼"
83	155¼"	186½"	198¾"	228"
84	157⅛"	188¾"	201⅛"	230¾"
85	159"	191"	203½"	233½"
86	160⅞"	193¼"	205⅞"	236¼"
87	162¾"	195½"	208¼"	239"
88	164⅝"	197¾"	210⅝"	241¾"
89	166½"	200"	213"	244½"
90	168⅜"	202¼"	215⅜"	247¼"
91	170¼"	204½"	217¾"	250"
92	172⅛"	206¾"	220⅛"	252¾"
93	174"	209"	222½"	255½"
94	175⅞"	211¼"	224⅞"	258¼"
95	177¾"	213½"	227¼"	261"
96	179⅝"	215¾"	229⅝"	263¾"
97	181½"	218"	232"	266½"
98	183⅜"	220¼"	234⅜"	269½"
99	185¼"	222½"	236¾"	272"
100	187⅛"	224¾"	239⅛"	274¾"

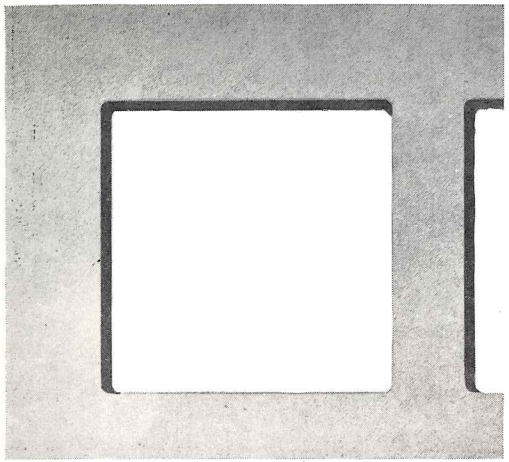
MAXIMUM THICKNESS

DESIGN	STEEL	BRONZE	ALUMINUM	STAINLESS STEEL	MONEL
A-12	1/4"	1/4"	1/4"	No. 10 U. S.	No. 10 U. S.
A-13	1/4"	1/4"	1/4"	No. 10 U. S.	No. 10 U. S.
A-14	1/4"	1/4"	1/4"	No. 10 U. S.	No. 10 U. S.
A-15	1/4"	1/4"	1/4"	No. 10 U. S.	No. 10 U. S.

Made To
48" WIDTH -- 120" LENGTH
LARGER IN SECTIONS
PANELED WITH STIFFENERS

OF PERFORATED METAL

1-1/2 - 2 - 2-1/2 inch SQUARE PLAIN LATTICE GRILLE PATTERNS

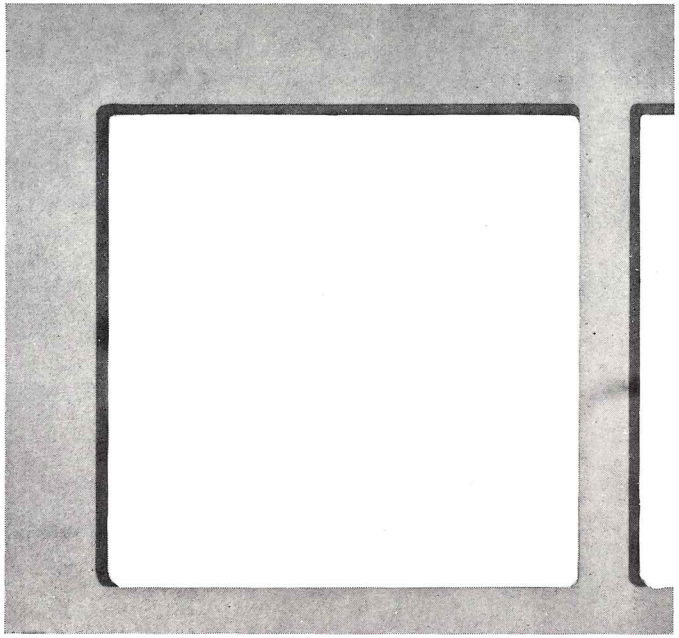


ACTUAL SIZE

design A-12

1-1/2" MESH - 3/8" FRETWORK

64% OPEN AREA

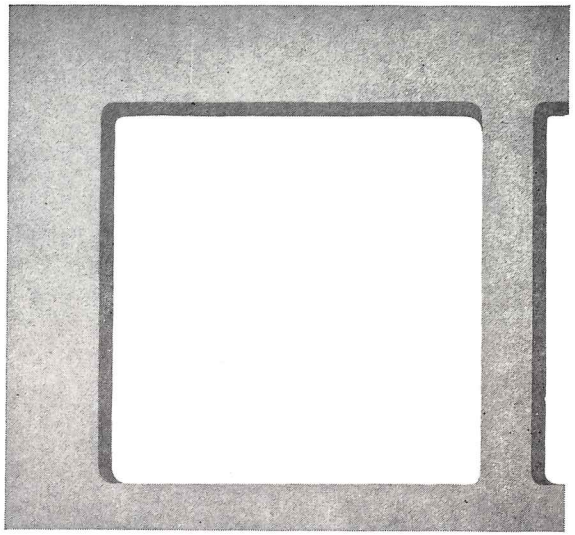


ACTUAL SIZE

design A-15

2-1/2" MESH - 1/4" FRETWORK

83% OPEN AREA



ACTUAL SIZE

design A-13

2" MESH - 1/4" FRETWORK

79% OPEN AREA

design A-14

2" MESH - 3/8" FRETWORK

71% OPEN AREA

(No Cut Shown)

SEE OPPOSITE PAGE
FOR OPENING SIZES

Note Opening Sizes Shown For All Cuts Except A-16

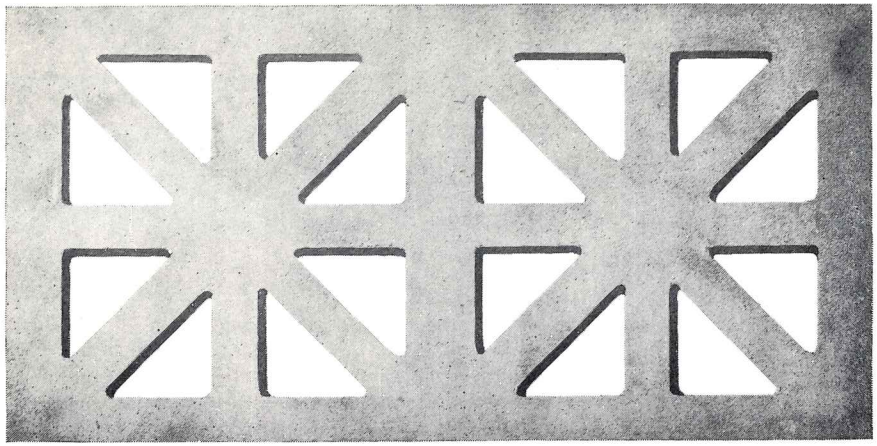
design A-16

2-1/2" MESH - 3/8" FRETWORK

76% OPEN AREA

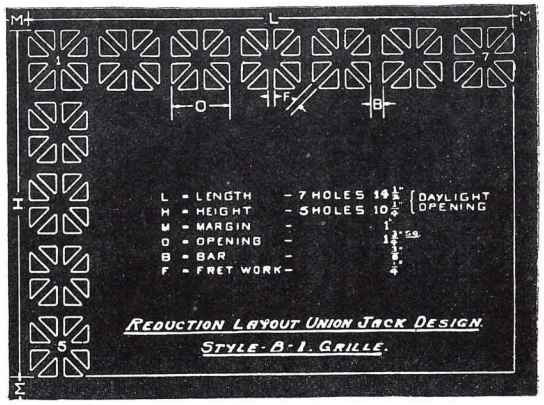
(No Cut Shown)

1¾ inch UNION JACK GRILLE PATTERN · design B-1



ACTUAL SIZE

28% Open Area


L - LENGTH - 7 HOLES 14½ DAYLIGHT OPENING
H - HEIGHT - 5 HOLES 10½
M - MARGIN - 1
O - OPENING - 1 15/16
B - BAR - 1/4
F - FRET WORK - 1/4
REDUCTION LAYOUT UNION JACK DESIGN
STYLE-B-1. GRILLE.

design B-1

1-3/4 inch MESH - 1/4 inch FRETWORK

3/8 inch CONSTANT BAR

28% OPEN AREA

Made To

48" Width - 120" Length

Larger in Sections

Paneled with Stiffeners

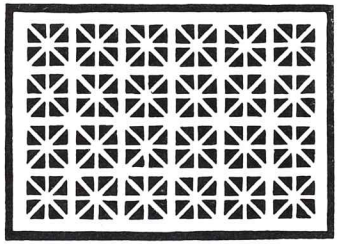


TABLE OF OPENING SIZES

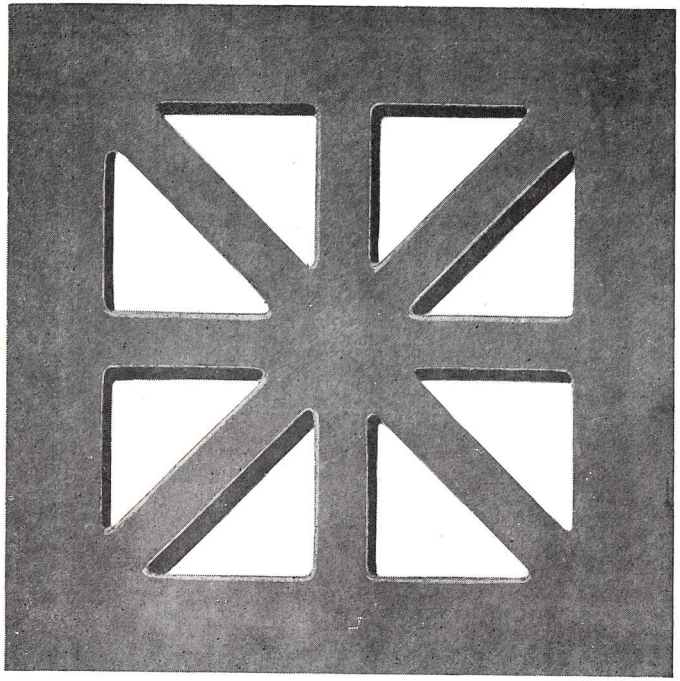
No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes
1	1¾"	16	33⅝"	31	65½"	46	97⅜"
2	3⅞"	17	35¾"	32	67⅝"	47	99½"
3	6"	18	37⅞"	33	69¾"	48	101⅝"
4	8⅛"	19	40"	34	71⅞"	49	103¾"
5	10¼"	20	42⅛"	35	74"	50	105⅞"
6	12⅜"	21	44¼"	36	76⅛"	51	108"
7	14½"	22	46⅜"	37	78¼"	52	110⅛"
8	16⅝"	23	48½"	38	80⅜"	53	112¼"
9	18¾"	24	50⅝"	39	82½"	54	114⅜"
10	20⅞"	25	52¾"	40	84⅝"	55	116½"
11	23"	26	54⅞"	41	86¾"	56	118⅝"
12	25⅛"	27	57"	42	88⅞"	57	120¾"
13	27¼"	28	59⅛"	43	91"		
14	29⅜"	29	61¼"	44	93⅛"		
15	31½"	30	63⅜"	45	95¼"		

Maximum Thickness

STEEL 3/16 inch - BRONZE 1/4 inch - ALUMINUM 1/4 inch

STAINLESS STEEL No. 10 USS - MONEL No. 10 USS

2½ inch WIDE BAR UNION JACK GRILLE PATTERN · design B-2



ACTUAL SIZE

design B-2

2-1/2 inch MESH - 1/4 inch FRETWORK

1/2 inch CONSTANT BAR

39% OPEN AREA

Made To

48" Width - 120" Length

Larger in Sections

Paneled with Stiffeners

39% Open Area

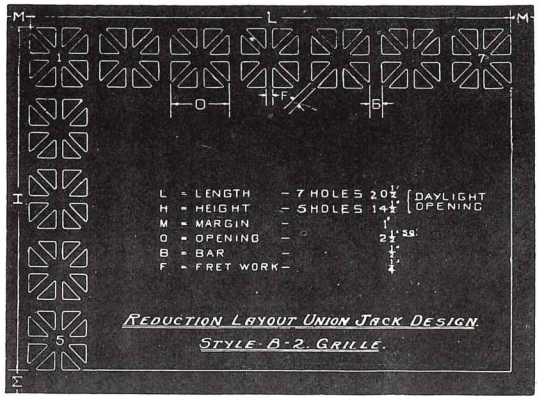
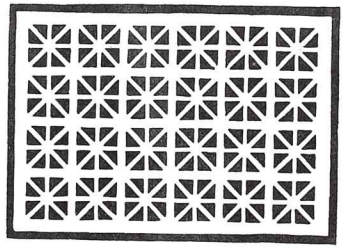


TABLE OF OPENING SIZES

No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes
1	2½"	11	32½"	21	62½"	31	92½"
2	5½"	12	35½"	22	65½"	32	95½"
3	8½"	13	38½"	23	68½"	33	98½"
4	11½"	14	41½"	24	71½"	34	101½"
5	14½"	15	44½"	25	74½"	35	104½"
6	17½"	16	47½"	26	77½"	36	107½"
7	20½"	17	50½"	27	80½"	37	110½"
8	23½"	18	53½"	28	83½"	38	113½"
9	26½"	19	56½"	29	86½"	39	116½"
10	29½"	20	59½"	30	89½"	40	119½"



Maximum Thickness

STEEL 1/4 inch - BRONZE 1/4 inch

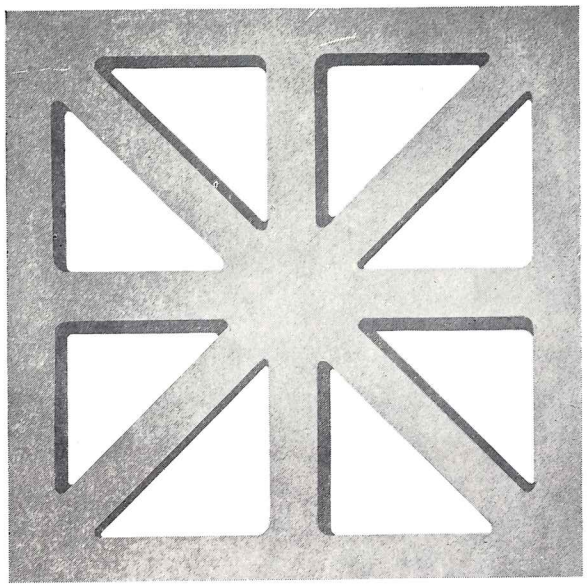
ALUMINUM 1/4 inch - MONEL No. 10 USS

STAINLESS STEEL No. 10 USS

DIAMOND MANUFACTURING COMPANY

WYOMING - PENNSYLVANIA

2½ inch UNION JACK GRILLE PATTERN . design B-3



ACTUAL SIZE

47%
Open Area

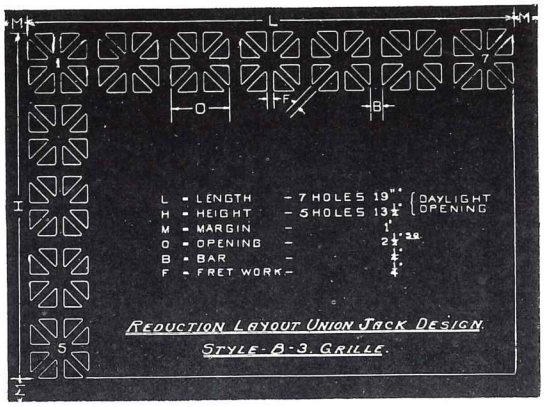

L - LENGTH - 7 HOLES 19" [DAYLIGHT
H - HEIGHT - 5 HOLES 13¼ [OPENING
M - MARGIN -
O - OPENING -
B - BAR -
F - FRET WORK -
REDUCTION LAYOUT UNION JACK DESIGN
STYLE-B-3 GRILLE.

TABLE OF OPENING SIZES

No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	Holes No. of	Opening Sizes
1	2½"	13	35½"	25	68½"	37	101½"
2	5¼"	14	38¼"	26	71¼"	38	104¼"
3	8"	15	41"	27	74"	39	107"
4	10¾"	16	43¾"	28	76¾"	40	109¾"
5	13½"	17	46½"	29	79½"	41	112½"
6	16¼"	18	49¼"	30	82¼"	42	115¼"
7	19"	19	52"	31	85"	43	118"
8	21¾"	20	54¾"	32	87¾"	44	120¾"
9	24½"	21	57½"	33	90½"	45	123½"
10	27¼"	22	60¼"	34	93¼"	46	126¼"
11	30"	23	63"	35	96"	47	129"
12	32¾"	24	65¾"	36	98¾"	48	131¾"

design B-3

2-1/2 inch MESH - 1/4 inch FRETWORK

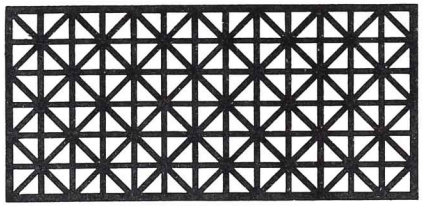
1/4 inch CONSTANT BAR

47% OPEN AREA

Made To

48" Width - 120" Length

Larger in Sections - Paneled with, Stiffeners



Maximum Thickness

STEEL 1/4 inch - BRONZE 1/4 inch

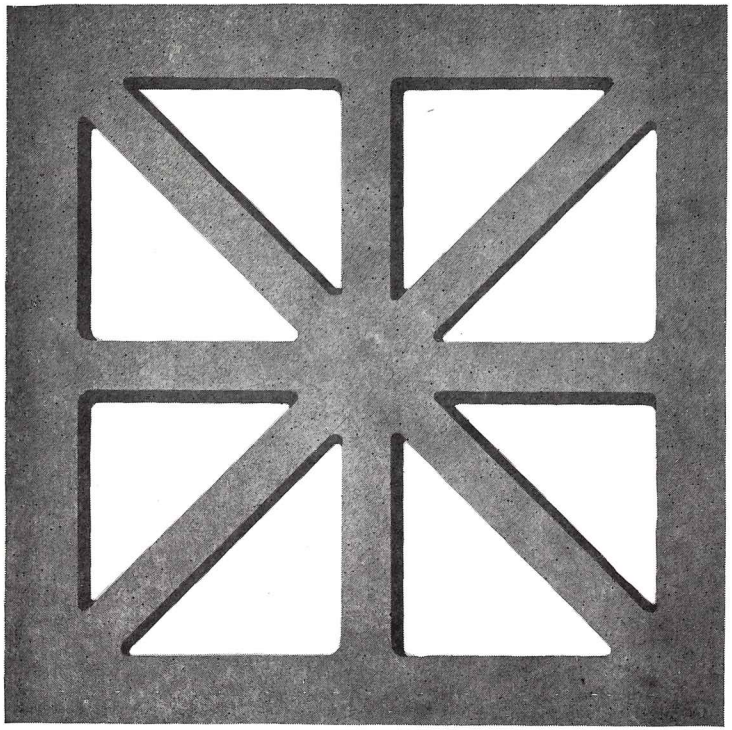
ALUMINUM 1/4 inch - MONEL No. 10 USS

STAINLESS STEEL No. 10 USS

DIAMOND MANUFACTURING COMPANY

WYOMING - PENNSYLVANIA

3 inch UNION JACK GRILLE PATTERN . design B-4



ACTUAL SIZE

design B-4

3 inch MESH - 1/4 inch FRETWORK
3/8 inch CONSTANT BAR
57% OPEN AREA

Made To
48" Width - 120" Length
Larger in Sections - Paneled with Stiffeners

57% Open Area

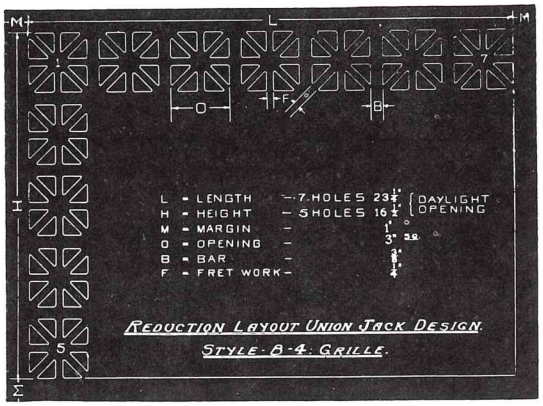
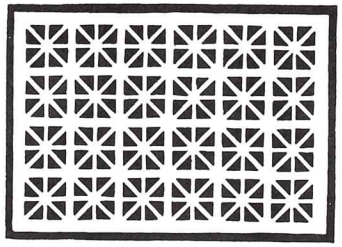


TABLE OF OPENING SIZES

No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes
1	3"	11	36¾"	21	70½"	31	104¼"
2	6⅜"	12	40⅛"	22	73⅞"	32	107⅝"
3	9¾"	13	43½"	23	77¼"	33	111"
4	13⅛"	14	46⅞"	25	80⅝"	34	114⅜"
5	16½"	15	50¼"	25	84"	35	117¾"
6	19⅞"	16	53⅝"	26	87⅜"	36	121⅛"
7	23¼"	17	57"	27	90¾"	37	124½"
8	26⅝"	18	60⅜"	28	94⅛"	38	127⅞"
9	30"	19	63¾"	29	97½"	39	131¼"
10	33⅜"	20	67⅛"	30	100⅞"	40	134⅝"



Maximum Thickness
STEEL 1/4 inch - BRONZE 1/4 inch
ALUMINUM 1/4 inch - MONEL No. 10 USS
STAINLESS STEEL No. 10 USS

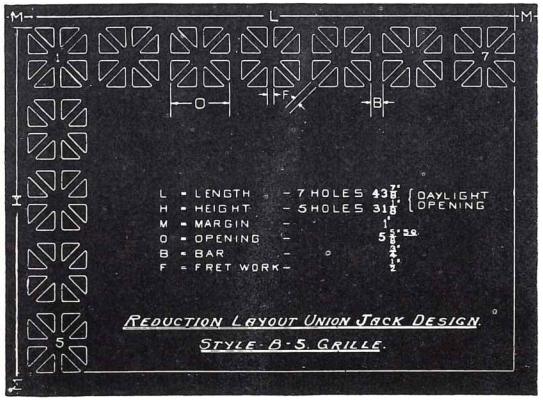
3½ and 5⅝ inch UNION JACK GRILLE PATTERNS • B-5 and B-6

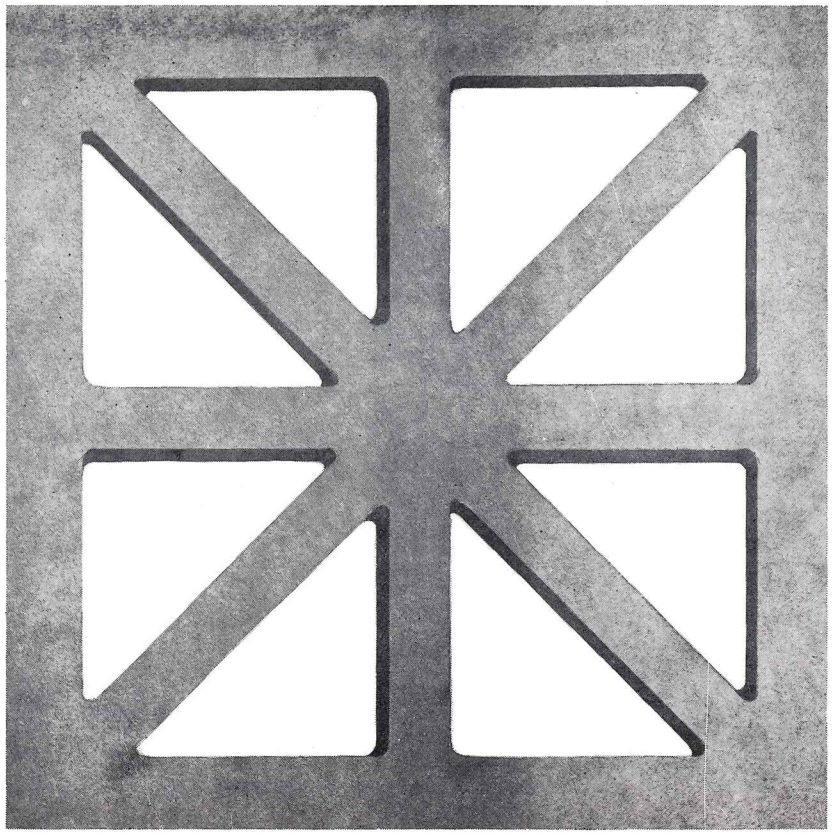
design B-5

5-5/8 inch MESH - 1/2 inch FRETWORK

3/4 inch CONSTANT BAR

57% OPEN AREA


L = LENGTH - 7 HOLES 43⅞" (DAYLIGHT OPENING
H = HEIGHT - 5 HOLES 31⅛"
M = MARGIN -
O = OPENING -
B = BAR -
F = FRET WORK -
REDUCTION LAYOUT UNION JACK DESIGN.
STYLE-B-5 GRILLE.



ACTUAL SIZE

design B-6

(No Cut Shown For Design B-5)

Made To

48" Width - 120" Length

Larger in Sections - Paneled with Stiffeners

design B-6

3-1/2 inch MESH - 5/16 inch FRETWORK

3/8 inch CONSTANT BAR

50% OPEN AREA

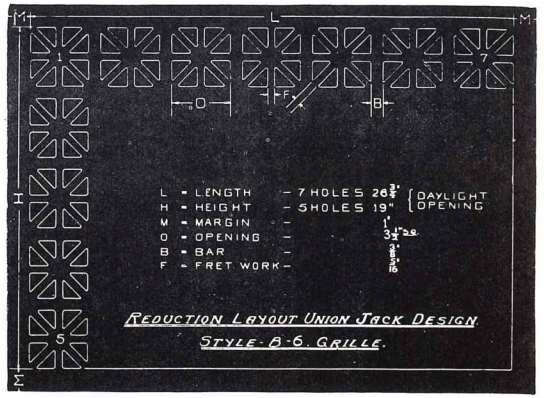

L = LENGTH - 7 HOLES 26⅜" (DAYLIGHT OPENING
H = HEIGHT - 5 HOLES 19"
M = MARGIN -
O = OPENING -
B = BAR -
F = FRET WORK -
REDUCTION LAYOUT UNION JACK DESIGN.
STYLE-B-6 GRILLE.

TABLE OF OPENING SIZES

No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes
2	12"	10	63"	18	114"
3	18⅜"	11	69⅜"	19	120⅜"
4	24¾"	12	75¾"	20	126¾"
5	31⅛"	13	82⅛"	21	133⅛"
6	37½"	14	88½"	22	139½"
7	43⅞"	15	94⅞"	23	145⅞"
8	50¼"	16	101¼"	24	152¼"
9	56⅝"	17	107⅝"		

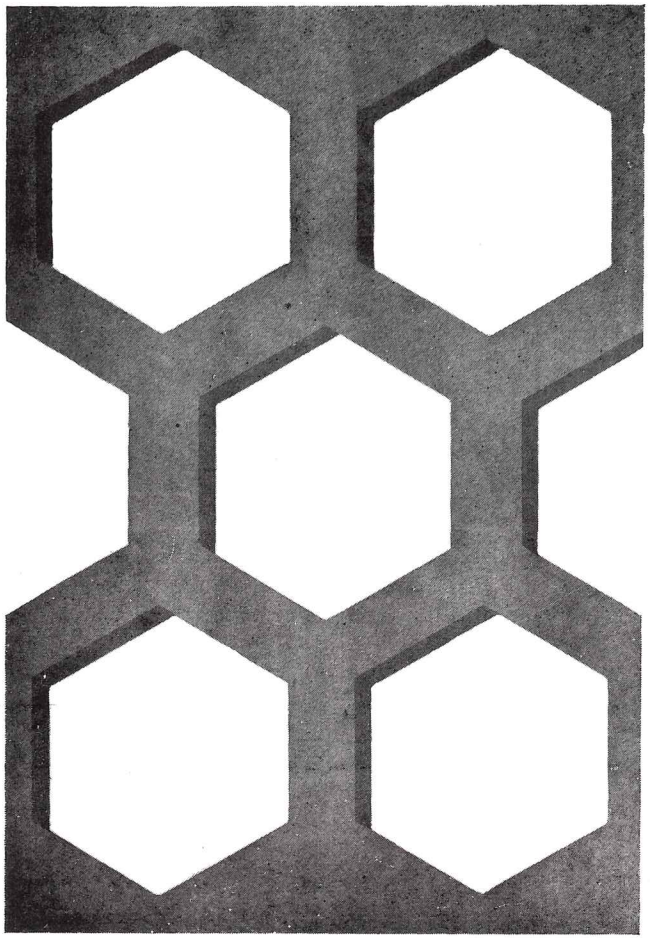
TABLE OF OPENING SIZES

No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes
1	3½"	9	34½"	17	65½"
2	7⅜"	10	38⅜"	18	69⅜"
3	11¼"	11	42¼"	19	73¼"
4	15⅛"	12	46⅛"	20	77⅛"
5	19"	13	50"	21	81"
6	22⅞"	14	53⅞"	22	84⅞"
7	26¾"	15	57¾"	23	88¾"
8	30⅝"	16	61⅝"	24	92⅝"

Maximum Thickness *Maximum Thickness*

STEEL 1/4 inch - BRONZE 1/4 inch - ALUMINUM 1/4 inch - STAINLESS STEEL No. 10 USS - MONEL No. 10 USS

1 5/16 inch HONEYCOMB GRILLE PATTERN · design C-1



ACTUAL SIZE

design C-1

1-5/16 inch MESH - 3/8 inch FRETWORK

53% OPEN AREA

53% Open Area

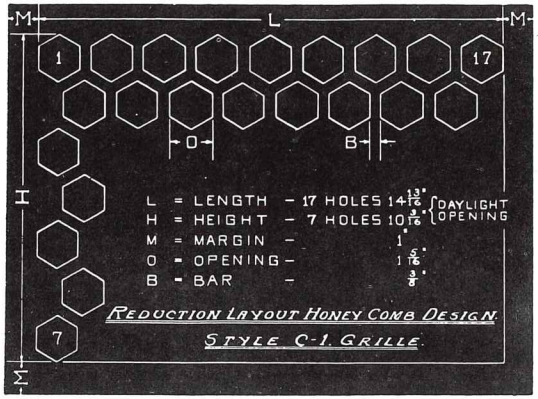
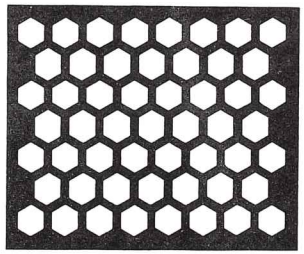


TABLE OF OPENING SIZES

No. of Holes	Opening Sizes		No. of Holes	Opening Sizes		No. of Holes	Opening Sizes	
	Length	Height		Length	Height		Length	Height
3	3"	4 7/16"	31	26 5/8"	44 11/16"	59	50 1/4"	84 15/16"
5	4 11/16"	7 5/16"	33	28 5/16"	47 9/16"	61	51 15/16"	87 13/16"
7	6 3/8"	10 3/16"	35	30"	50 7/16"	63	53 5/8"	90 11/16"
9	8 1/16"	13 1/16"	37	31 11/16"	53 5/16"	65	55 5/16"	93 9/16"
11	9 3/4"	15 15/16"	39	33 3/8"	56 3/16"	67	57"	96 7/16"
13	11 7/16"	18 13/16"	41	35 1/16"	59 1/16"	69	58 11/16"	99 5/16"
15	13 1/8"	21 11/16"	43	36 3/4"	61 15/16"	71	60 3/8"	102 3/16"
17	14 13/16"	24 9/16"	45	38 7/16"	64 13/16"	73	62 1/16"	105 1/16"
19	16 1/2"	27 7/16"	47	40 1/8"	67 11/16"	75	63 3/4"	107 15/16"
21	18 3/16"	30 5/16"	49	41 13/16"	70 9/16"	77	65 7/16"	110 13/16"
23	19 7/8"	33 3/16"	51	43 1/2"	73 7/16"	79	67 1/8"	113 11/16"
25	21 9/16"	36 1/16"	53	45 3/16"	76 5/16"	81	68 13/16"	116 9/16"
27	23 1/4"	38 15/16"	55	46 7/8"	79 3/16"	83	70 1/2"	119 7/16"
29	24 15/16"	41 13/16"	57	48 9/16"	82 1/16"			



Maximum Thickness

STEEL 1/4 inch - BRONZE 1/4 inch - ALUMINUM 1/4 inch

MONEL No. 10 USS - STAINLESS STEEL No. 10 USS

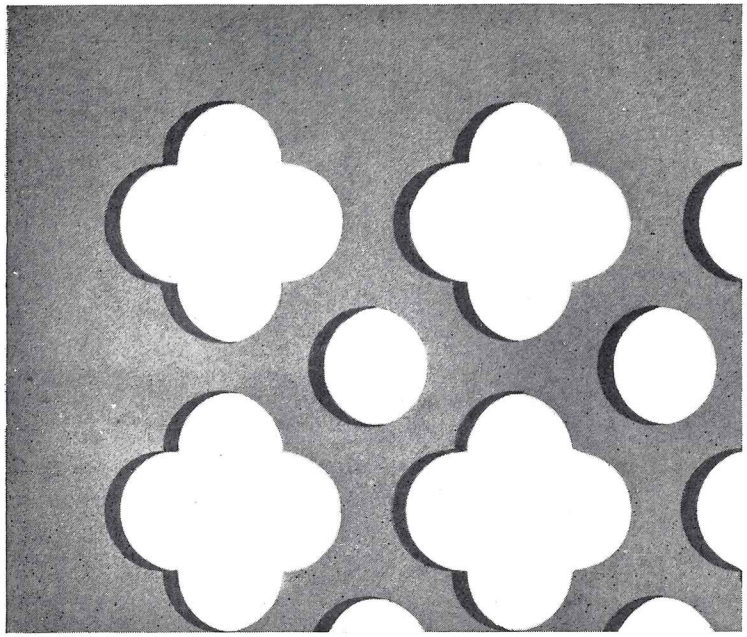
Made To: 48" Width - 120" Length

Larger in Sections - Paneled with Stiffeners

DIAMOND MANUFACTURING COMPANY

WYOMING - PENNSYLVANIA

1¼ CLOVERLEAF GRILLE PATTERN · design CL-1



ACTUAL SIZE

design CL-I

1-1/4 inch MESH - 1/4 inch FRETWORK

52% OPEN AREA

52%
Open Area

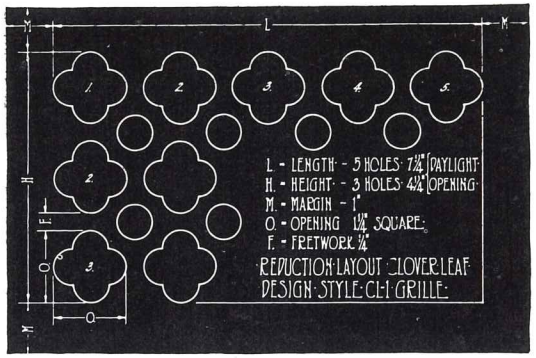
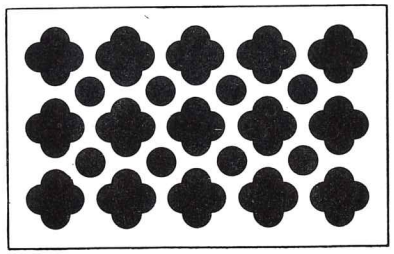

L. - LENGTH - 5 HOLES 7¾" DAYLIGHT
H. - HEIGHT - 3 HOLES 4¾" OPENING
M. - MARGIN - 1"
O. - OPENING 1¼" SQUARE
F. - FRETWORK ¼"
REDUCTION LAYOUT CLOVERLEAF
DESIGN STYLE CL-1 GRILLE

TABLE OF OPENING SIZES

No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes
2	2¾"	22	32¾"	43	64¼"	64	95¾"
3	4¼"	23	34¼"	44	65¾"	65	97¼"
4	5¾"	24	35¾"	45	67¼"	66	98¾"
5	7¼"	25	37¼"	46	68¾"	67	100¼"
6	8¾"	26	38¾"	47	70¼"	68	101¾"
7	10¼"	27	40¼"	48	71¾"	69	103¼"
8	11¾"	28	41¾"	49	73¼"	70	104¾"
9	13¼"	29	43¼"	50	74¾"	71	106¼"
10	14¾"	30	44¾"	51	76¼"	72	107¾"
11	16¼"	31	46¼"	52	77¾"	73	109¼"
12	17¾"	32	47¾"	53	79¼"	74	110¾"
13	19¼"	33	49¼"	54	80¾"	75	112¼"
14	20¾"	34	50¾"	55	82¼"	76	113¾"
15	22¼"	35	52¼"	56	83¾"	77	115¼"
16	23¾"	36	53¾"	57	85¼"	78	116¾"
17	25¼"	37	55¼"	58	86¾"	79	118¼"
18	26¾"	38	56¾"	59	88¼"	80	119¾"
19	28¼"	39	58¼"	60	89¾"	81	121¼"
20	29¾"	40	59¾"	61	91¼"	82	122¾"
21	31¼"	41	61¼"	62	92¾"	83	124¼"
		42	62¾"	63	94¼"	84	125¾"

Made To
48" Width - 120" Length

Larger in Sections
Paneled with Stiffeners



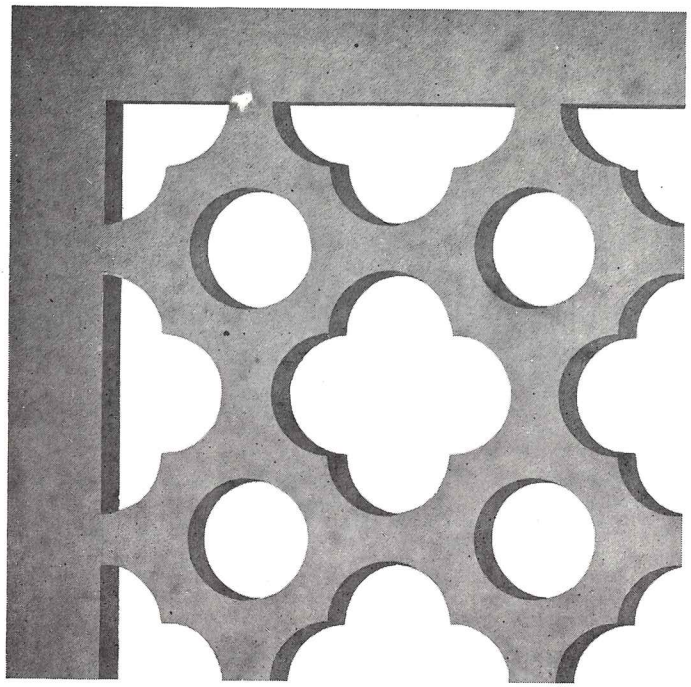
Maximum Thickness

STEEL 1/4 inch - BRONZE 1/4 inch - ALUMINUM 1/4 inch

STAINLESS STEEL No. 10 USS - MONEL No. 10 USS

DIAMOND MANUFACTURING COMPANY
WYOMING - PENNSYLVANIA

1¼ inch CLOVERLEAF GRILLE PATTERN (with half holes) · design CL-2



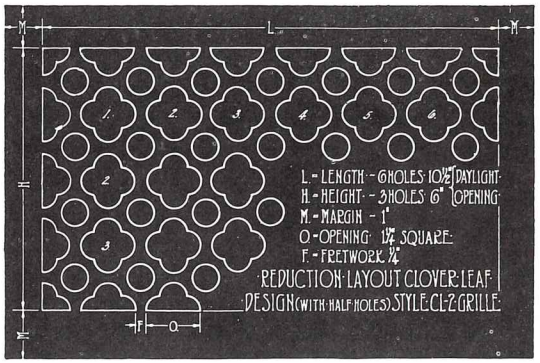
ACTUAL SIZE

design CL-2

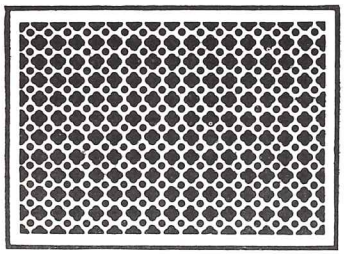
1-1/4 inch MESH - 1/4 inch FRETWORK

60% OPEN AREA

60%
Open Area



Made To
48" Width - 120" Length
Larger in Sections
Paneled with Stiffeners



Maximum Thickness

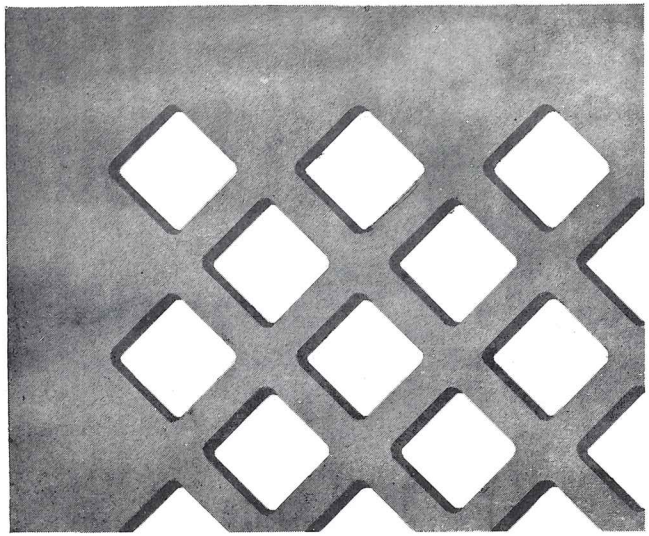
STEEL 1/4 inch - BRONZE 1/4 inch - ALUMINUM 1/4 inch

MONEL No. 10 USS - STAINLESS STEEL No. 10 USS

TABLE OF OPENING SIZES

No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes
1	3"	28	43½"	54	82½"
2	4½"	29	45"	55	84"
3	6"	30	46½"	56	85½"
4	7½"	31	48"	57	87"
5	9"	32	49½"	58	88½"
6	10½"	33	51"	59	90"
7	12"	34	52½"	60	91½"
8	13½"	35	54"	61	93"
9	15"	36	55½"	62	94½"
10	16½"	37	57"	63	96"
11	18"	38	58½"	64	97½"
12	19½"	39	60"	65	99"
13	21"	40	61½"	66	100½"
14	22½"	41	63"	67	102"
15	24"	42	64½"	68	103½"
16	25½"	43	66"	69	105"
17	27"	44	67½"	70	106½"
18	28½"	45	69"	71	108"
19	30"	46	70½"	72	109½"
20	31½"	47	72"	73	111"
21	33"	48	73½"	74	112½"
22	34½"	49	75"	75	114"
23	36"	50	76½"	76	115½"
24	37½"	51	78"	77	117"
25	39"	52	79½"	78	118½"
26	40½"	53	81"	79	120"
27	42"				

½ inch DIAGONAL LATTICE GRILLE PATTERN · design D-1



ACTUAL SIZE

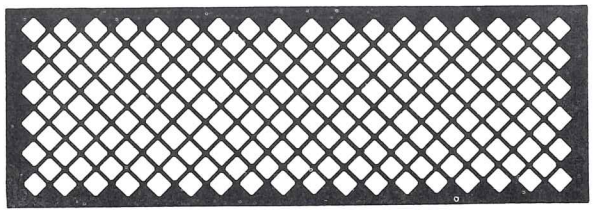
design D-1

1/2 inch MESH - 3/16 inch FRETWORK

53% OPEN AREA

Made To: 48" Width - 120" Length

Larger in Sections - Paneled with Stiffeners



53% Open Area

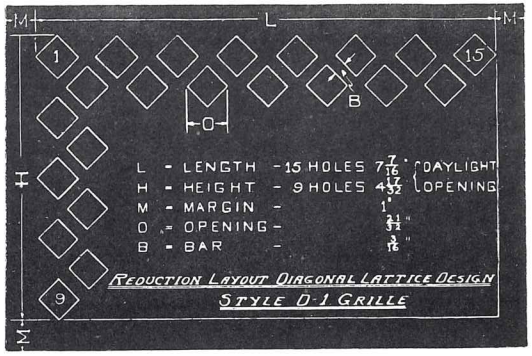


TABLE OF OPENING SIZES

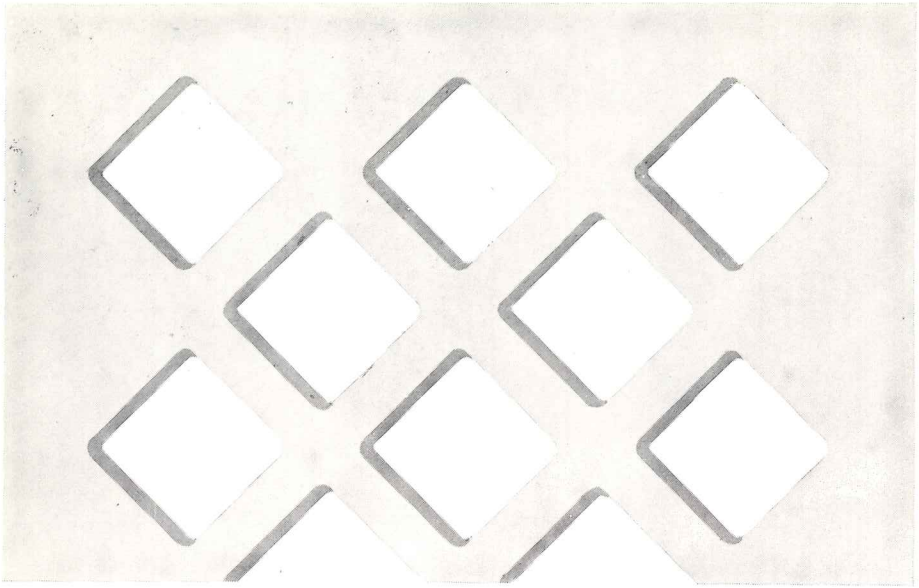
No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes
3	1 5/8"	49	23 29/32"	95	46 3/16"	141	68 15/32"	187	90 3/4"
5	2 19/32"	51	24 7/8"	97	47 5/32"	143	69 7/16"	189	91 23/32"
7	3 9/16"	53	25 27/32"	99	48 1/8"	145	70 13/32"	191	92 11/16"
9	4 17/32"	55	26 13/16"	101	49 3/32"	147	71 3/8"	193	93 21/32"
11	5 1/2"	57	27 25/32"	103	50 1/16"	149	72 11/32"	195	94 5/8"
13	6 15/32"	59	28 3/4"	105	51 1/32"	151	73 5/16"	197	95 19/32"
15	7 7/16"	61	29 23/32"	107	52"	153	74 9/32"	199	96 9/16"
17	8 13/32"	63	30 11/16"	109	52 31/32"	155	75 1/4"	201	97 17/32"
19	9 3/8"	65	31 21/32"	111	53 15/16"	157	76 7/32"	203	98 1/2"
21	10 11/32"	67	32 5/8"	113	54 29/32"	159	77 3/16"	205	99 15/32"
23	11 5/16"	69	33 19/32"	115	55 7/8"	161	78 5/32"	207	100 7/16"
25	12 9/32"	71	34 9/16"	117	56 27/32"	163	79 1/8"	209	101 13/32"
27	13 1/4"	73	35 17/32"	119	57 13/16"	165	80 3/32"	211	102 3/8"
29	14 7/32"	75	36 1/2"	121	58 25/32"	167	81 1/16"	213	103 11/32"
31	15 3/16"	77	37 15/32"	123	59 3/4"	169	82 1/32"	215	104 5/16"
33	16 5/32"	79	38 7/16"	125	60 23/32"	171	83"	217	105 9/32"
35	17 1/8"	81	39 13/32"	127	61 11/16"	173	83 31/32"	219	106 1/4"
37	18 3/32"	83	40 3/8"	129	62 21/32"	175	84 15/16"	221	107 7/32"
39	19 1/16"	85	41 11/32"	131	63 5/8"	177	85 29/32"	223	108 3/16"
41	20 1/32"	87	42 5/16"	133	64 19/32"	179	86 7/8"	225	109 5/32"
43	21"	89	43 9/32"	135	65 9/16"	181	87 27/32"	227	110 1/8"
45	21 31/32"	91	44 1/4"	137	66 17/32"	183	88 13/16"	229	111 3/32"
47	22 15/16"	93	45 7/32"	139	67 1/2"	185	89 25/32"	231	112 1/16"

Maximum Thickness

STEEL No. 10 USS - BRONZE 1/8 inch - ALUMINUM 3/16 inch

STAINLESS STEEL No. 12 USS - MONEL No. 12 USS

¾ inch DIAGONAL LATTICE GRILLE PATTERN · design D-2



ACTUAL SIZE

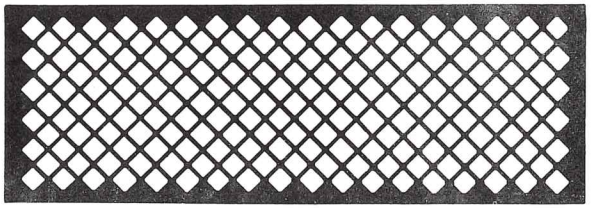
design D-2

3/4 inch MESH - 1/4 inch FRETWORK

56% OPEN AREA

Made To: 48" Width - 120" Length

Larger in Sections - Paneled with Stiffeners



56%
Open Area

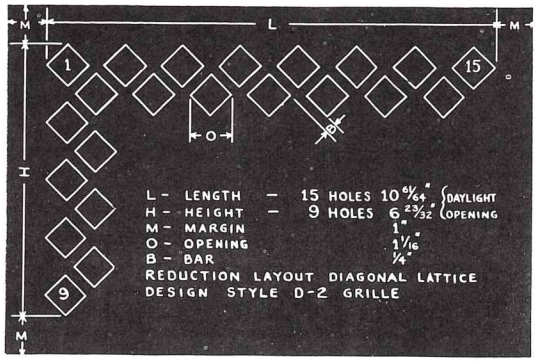


TABLE OF OPENING SIZES

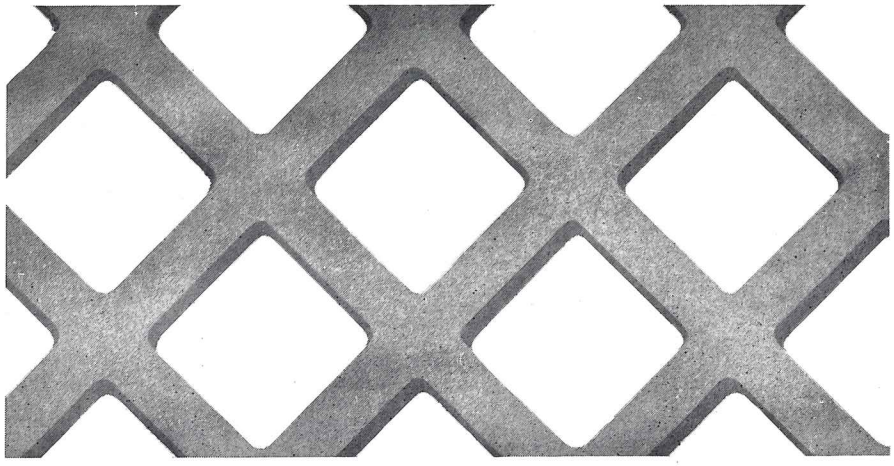
No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes
3	2 15/32"	45	32 11/64"	89	61 7/8"	131	91 9/16"
5	3 57/64"	47	33 37/64"	91	63 9/32"	133	92 63/64"
7	5 19/64"	49	35"	93	64 45/64"	135	94 25/64"
9	6 23/32"	51	36 13/32"	95	66 7/64"	137	95 13/16"
11	8 1/8"	53	37 53/64"	97	67 33/64"	139	97 7/32"
13	9 35/64"	55	39 15/64"	99	68 15/16"	141	98 41/64"
15	10 61/64"	57	40 21/32"	101	70 23/64"	143	100 1/64"
17	12 3/8"	59	42 1/16"	103	71 49/64"	145	101 15/32"
19	13 25/32"	61	43 31/64"	105	73 11/64"	147	102 7/8"
21	15 13/64"	63	44 57/64"	107	74 19/32"	149	104 9/32"
23	16 39/64"	65	46 5/16"	109	76"	151	105 45/64"
25	18 1/32"	67	47 23/32"	111	77 27/64"	153	107 1/8"
27	19 7/16"	69	49 9/64"	113	78 27/32"	155	108 17/32"
29	20 55/64"	71	50 9/16"	115	80 1/4"	157	109 61/64"
31	22 17/64"	73	51 31/32"	117	81 43/64"	159	111 23/64"
33	23 11/16"	75	53 3/8"	119	83 5/64"	161	112 25/32"
35	25 3/32"	77	54 51/64"	121	84 1/2"	163	114 3/16"
37	26 33/64"	81	56 7/32"	123	85 29/32"	165	115 39/64"
39	27 59/64"	83	57 5/8"	125	87 21/64"	167	117 1/64"
41	29 11/32"	85	59 1/32"	127	88 47/64"	169	118 7/16"
43	30 3/4"	87	60 29/64"	129	90 5/32"	171	119 27/32"

Maximum Thickness

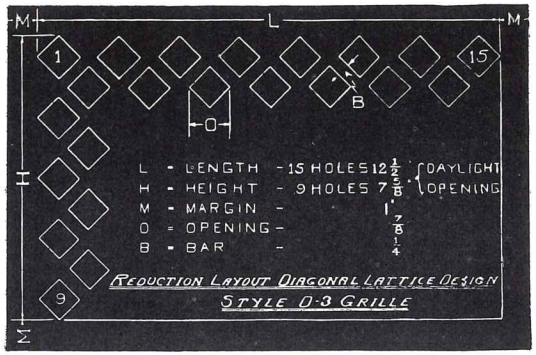
STEEL 1/4 inch - BRONZE 1/4 inch - ALUMINUM 1/4 inch

STAINLESS STEEL No. 12 USS - MONEL No. 12 USS

7/8 inch DIAGONAL LATTICE GRILLE PATTERN · design D-3



ACTUAL SIZE

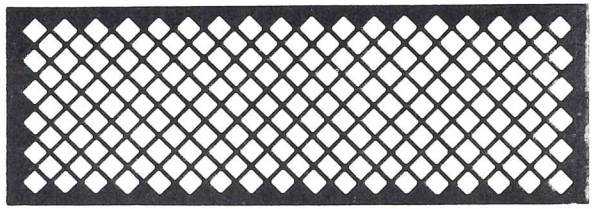


60% Open Area

design D-3

7/8 inch MESH - 1/4 inch FRETWORK

60% OPEN AREA



Made To
48" Width - 120" Length
Larger in Sections
Paneled with Stiffeners

TABLE OF OPENING SIZES

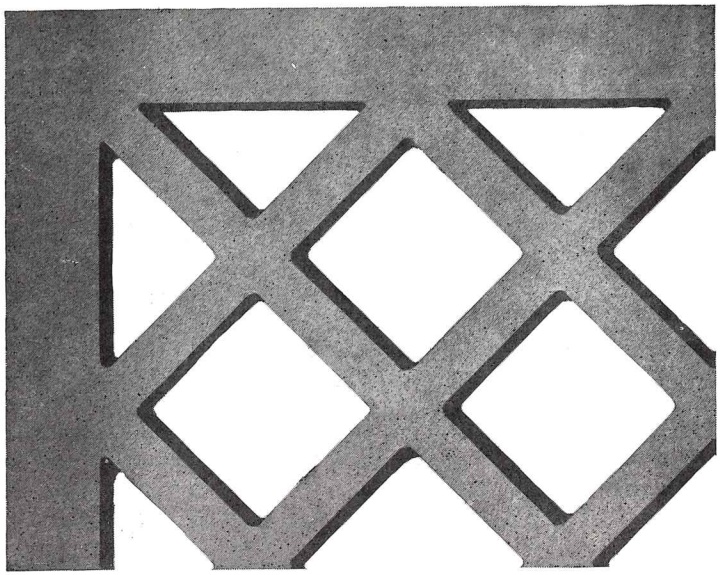
No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes
3	2 3/4"	41	33 5/8"	79	64 1/2"	117	95 3/8"
5	4 3/8"	43	35 1/4"	81	66 1/8"	119	97"
7	6"	45	36 7/8"	83	67 3/4"	121	98 5/8"
9	7 5/8"	47	38 1/2"	85	69 3/8"	123	100 1/4"
11	9 1/4"	49	40 1/8"	87	71"	125	101 7/8"
13	10 7/8"	51	41 3/4"	89	72 5/8"	127	103 1/2"
15	12 1/2"	53	43 3/8"	91	74 1/4"	129	105 1/8"
17	14 1/8"	55	45"	93	75 7/8"	131	106 3/4"
19	15 3/4"	57	46 5/8"	95	77 1/2"	133	108 3/8"
21	17 3/8"	59	48 1/4"	97	79 1/8"	135	110"
23	19"	61	49 7/8"	99	80 3/4"	137	111 5/8"
25	20 5/8"	63	51 1/2"	101	82 3/8"	139	113 1/4"
27	22 1/4"	65	53 1/8"	103	84"	141	114 7/8"
29	23 7/8"	67	54 3/4"	105	85 5/8"	143	116 1/2"
31	25 1/2"	69	56 3/8"	107	87 1/4"	145	118 1/8"
33	27 1/8"	71	58"	109	88 7/8"	147	119 3/4"
35	28 3/4"	73	59 5/8"	111	90 1/2"		
37	30 3/8"	75	61 1/4"	113	92 1/8"		
39	32"	77	62 7/8"	115	93 3/4"		

Maximum Thickness

STEEL 1/4 inch - BRONZE 1/4 inch - ALUMINUM 1/4 inch

STAINLESS STEEL No. 10 USS - MONEL No. 10 USS

7/8 inch DIAGONAL LATTICE GRILLE PATTERN (with half holes) • design D-6

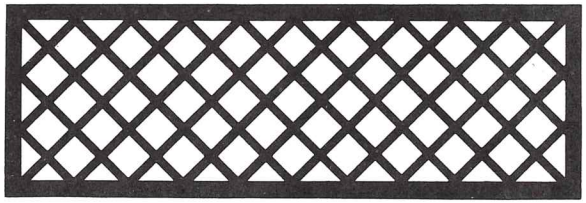


ACTUAL SIZE

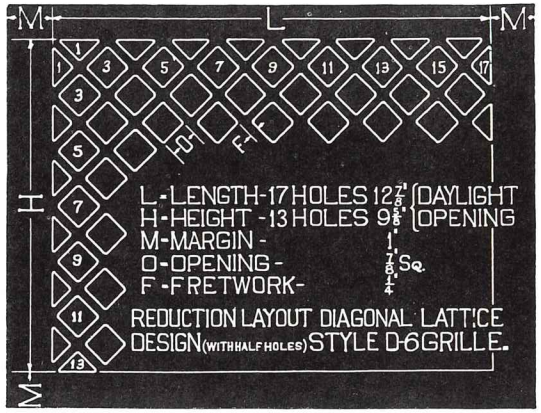
design D-6

7/8 inch MESH - 1/4 inch FRETWORK

61% OPEN AREA



61% Open Area



Made To:
48" Width - 120" Length
Larger in Sections
Paneled with Stiffeners

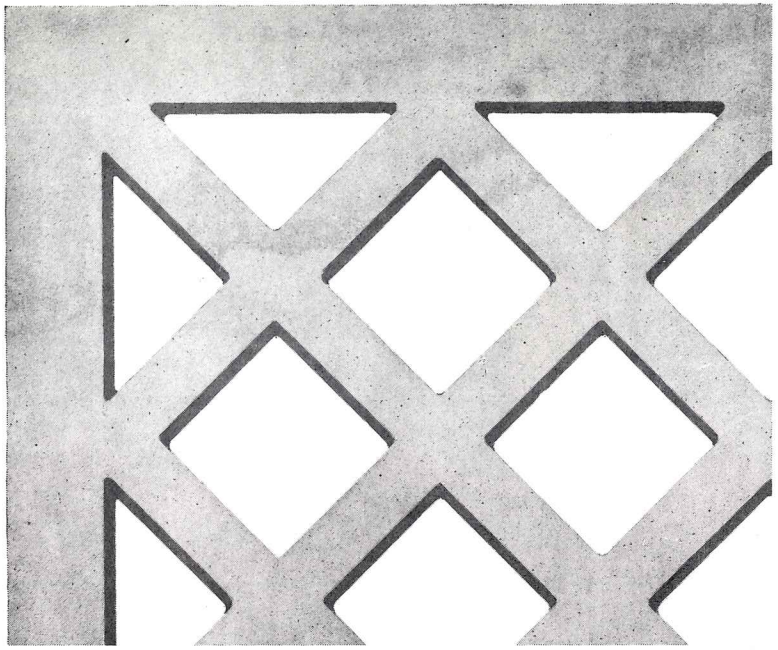
TABLE OF OPENING SIZES

No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes
3	1 5/8"	37	29 1/8"	71	56 3/4"	105	84 3/8"
5	3 1/8"	39	30 3/4"	73	58 3/8"	107	86"
7	4 3/4"	41	32 3/8"	75	60"	109	87 5/8"
9	6 3/8"	43	34"	77	61 5/8"	111	89 1/4"
11	8"	45	35 5/8"	79	63 1/4"	113	90 7/8"
13	9 5/8"	47	37 1/4"	81	64 7/8"	115	92 1/2"
15	11 1/4"	49	38 7/8"	83	66 1/2"	117	94 1/8"
17	12 7/8"	51	40 1/2"	85	68 1/8"	119	95 3/4"
19	14 1/2"	53	42 1/8"	87	69 3/4"	121	97 3/8"
21	16 1/8"	55	43 3/4"	89	71 3/8"	123	99"
23	17 3/4"	57	45 3/8"	91	73"	125	100 5/8"
25	19 3/8"	59	47"	93	74 5/8"	127	102 1/4"
27	21"	61	48 5/8"	95	76 1/4"	129	103 7/8"
29	22 5/8"	63	50 1/4"	97	77 7/8"	131	105 1/2"
31	24 1/4"	65	51 7/8"	99	79 1/2"	133	107 1/8"
33	25 7/8"	67	53 1/2"	101	81 1/8"	135	108 3/4"
35	27 1/2"	69	55 1/8"	103	82 3/4"	137	110 3/8"

Maximum Thickness

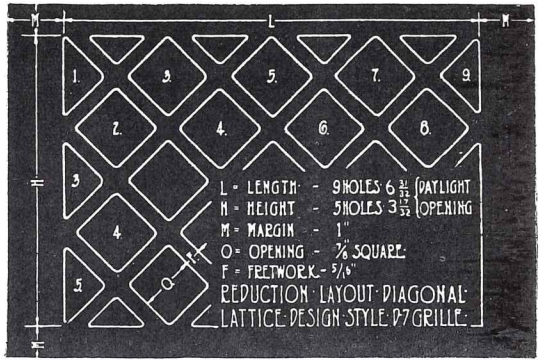
STEEL 1/4 inch - BRONZE 1/4 inch - ALUMINUM 1/4 inch
STAINLESS STEEL No. 10 USS - MONEL No. 10 USS

7/8 inch DIAGONAL LATTICE GRILLE PATTERN · design D-7



ACTUAL SIZE

58% Open Area



design D-7

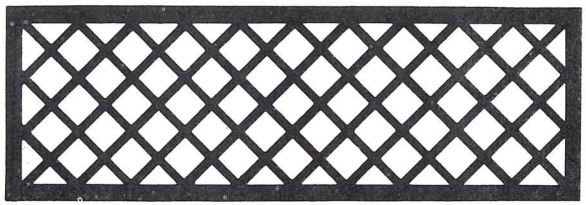
7/8 inch MESH - 5/16 inch FRETWORK

58% OPEN AREA

Made To
48" Width - 120" Length
Larger in Sections
Paneled with Stiffeners

TABLE OF OPENING SIZES

No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes
3	1 13/16"	33	27 19/32"	63	53 3/8"	93	79 5/32"
5	3 17/32"	35	29 5/16"	65	55 3/32"	95	80 7/8"
7	5 1/4"	37	31 1/32"	67	56 13/16"	97	82 19/32"
9	6 31/32"	39	32 3/4"	69	58 17/32"	99	84 5/16"
11	8 11/16"	41	34 15/32"	71	60 1/4"	101	86 1/32"
13	10 13/32"	43	36 3/16"	73	61 31/32"	103	87 3/4"
15	12 1/8"	45	37 29/32"	75	63 11/16"	105	89 15/32"
17	13 27/32"	47	39 5/8"	77	65 13/32"	107	91 3/16"
19	15 9/16"	49	41 11/32"	79	67 1/8"	109	92 29/32"
21	17 9/32"	51	43 1/16"	81	68 27/32"	111	94 5/8"
23	19"	53	44 25/32"	83	70 9/16"	113	96 1/32"
25	20 23/32"	55	46 1/2"	85	72 9/32"	115	98 1/16"
27	22 7/16"	57	48 7/32"	87	74"	117	99 25/32"
29	24 5/32"	59	49 15/16"	89	75 23/32"	119	101 1/2"
31	25 7/8"	61	51 21/32"	91	77 7/16"		

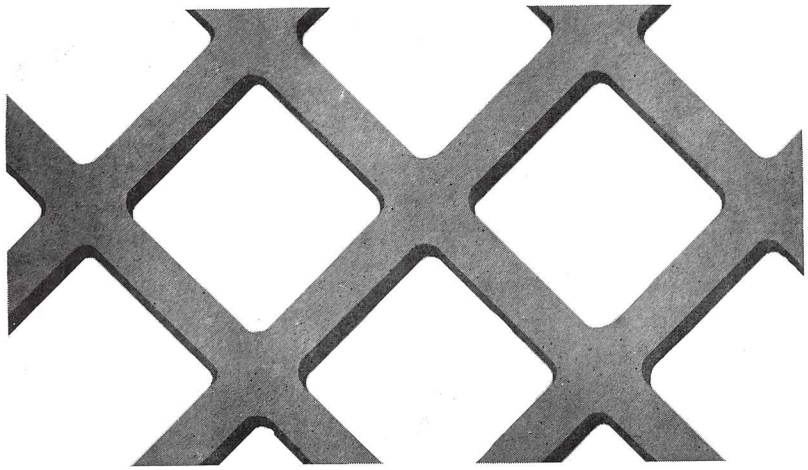


Maximum Thickness

STEEL 1/4 inch - BRONZE 1/4 inch - ALUMINUM 1/4 inch

STAINLESS STEEL No. 10 USS - MONEL No. 10 USS

1 inch DIAGONAL LATTICE GRILLE PATTERN · design D-4



ACTUAL SIZE

design D-4

1 inch MESH - 1/4 inch FRETWORK

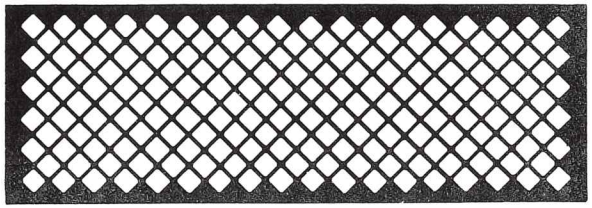
64% OPEN AREA

Made To

48" Width - 120" Length

Larger in Sections

Paneled with Stiffeners



64%
Open Area

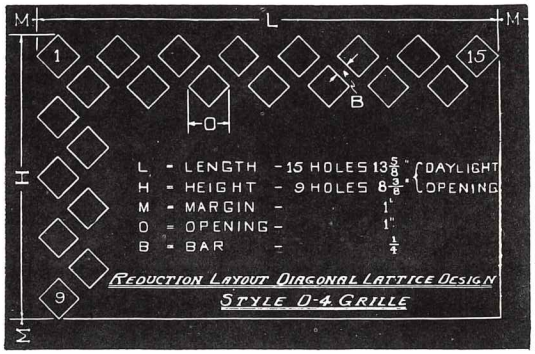


TABLE OF OPENING SIZES

No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes
3	3 1/8"	47	41 5/8"	91	80 1/8"	135	118 5/8"
5	4 7/8"	49	43 3/8"	93	81 7/8"	137	120 3/8"
7	6 5/8"	51	45 1/8"	95	83 5/8"	139	122 1/8"
9	8 3/8"	53	46 7/8"	97	85 3/8"	141	123 7/8"
11	10 1/8"	55	48 5/8"	99	87 1/8"	143	125 5/8"
13	11 7/8"	57	50 3/8"	101	88 7/8"	145	127 3/8"
15	13 5/8"	59	52 1/8"	103	90 5/8"	147	129 1/8"
17	15 3/8"	61	53 7/8"	105	92 3/8"	149	130 7/8"
19	17 1/8"	63	55 5/8"	107	94 1/8"	151	132 5/8"
21	18 7/8"	65	57 3/8"	109	95 7/8"	153	134 3/8"
23	20 5/8"	67	59 1/8"	111	97 5/8"	155	136 1/8"
25	22 3/8"	69	60 7/8"	113	99 3/8"	157	137 7/8"
27	24 1/8"	71	62 5/8"	115	101 1/8"	159	139 5/8"
29	25 7/8"	73	64 3/8"	117	102 7/8"	161	141 3/8"
31	27 5/8"	75	66 1/8"	119	104 5/8"	163	143 1/8"
33	29 3/8"	77	67 7/8"	121	106 3/8"	165	144 7/8"
35	31 1/8"	79	69 5/8"	123	108 1/8"	167	146 5/8"
37	32 7/8"	81	71 3/8"	125	109 7/8"	169	148 3/8"
39	34 5/8"	83	73 1/8"	127	111 5/8"	171	150 1/8"
41	36 3/8"	85	74 7/8"	129	113 3/8"		
43	38 1/8"	87	76 5/8"	131	115 1/8"		
45	39 7/8"	89	78 3/8"	133	116 7/8"		

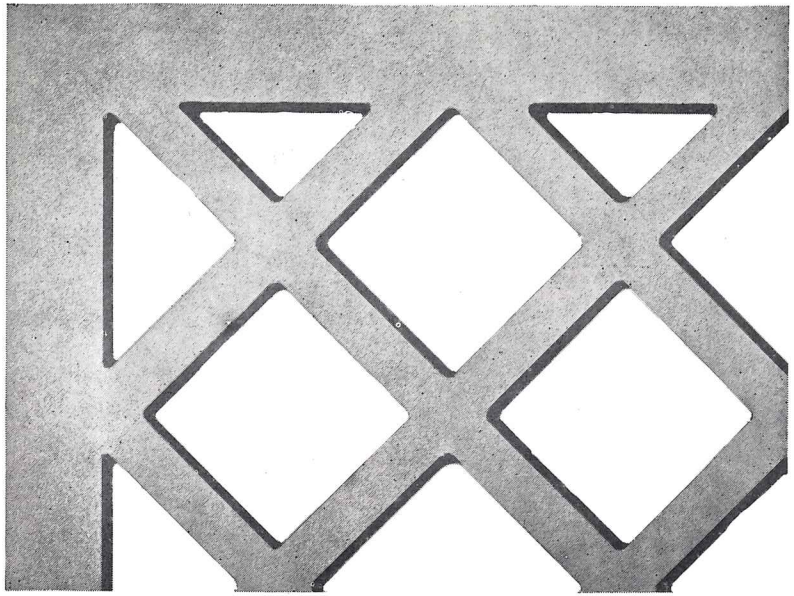
Maximum Thickness

STEEL 1/4 inch - BRONZE 1/4 inch - ALUMINUM 1/4 inch

STAINLESS STEEL No. 10 USS - MONEL No. 10 USS

DIAMOND MANUFACTURING COMPANY
WYOMING - PENNSYLVANIA

1 inch DIAGONAL LATTICE GRILLE PATTERN (with half holes) · design D-5



ACTUAL SIZE

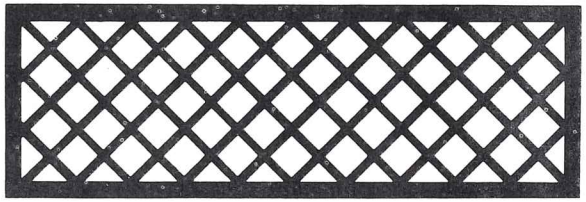
design D-5

1 inch MESH - 1/4 inch FRETWORK

65% OPEN AREA

Made To: 48" Width - 120" Length

Larger in Sections - Paneled with Stiffeners



65%
Open Area

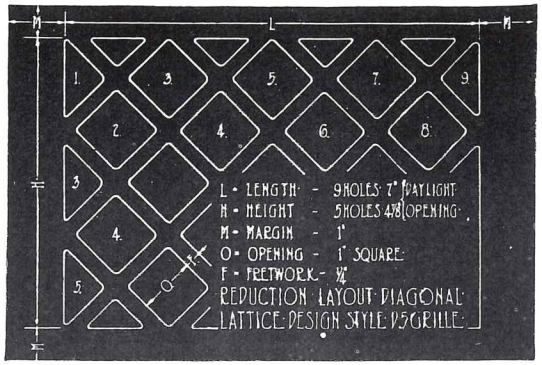

L - LENGTH - 9 HOLES 7" DAYLIGHT
H - HEIGHT - 5 HOLES 4⅞ OPENING
M - MARGIN - 1"
O - OPENING - 1" SQUARE
F - FRETWORK - ¼
REDUCTION LAYOUT DIAGONAL LATTICE DESIGN STYLE D-5 GRILLE

TABLE OF OPENING SIZES

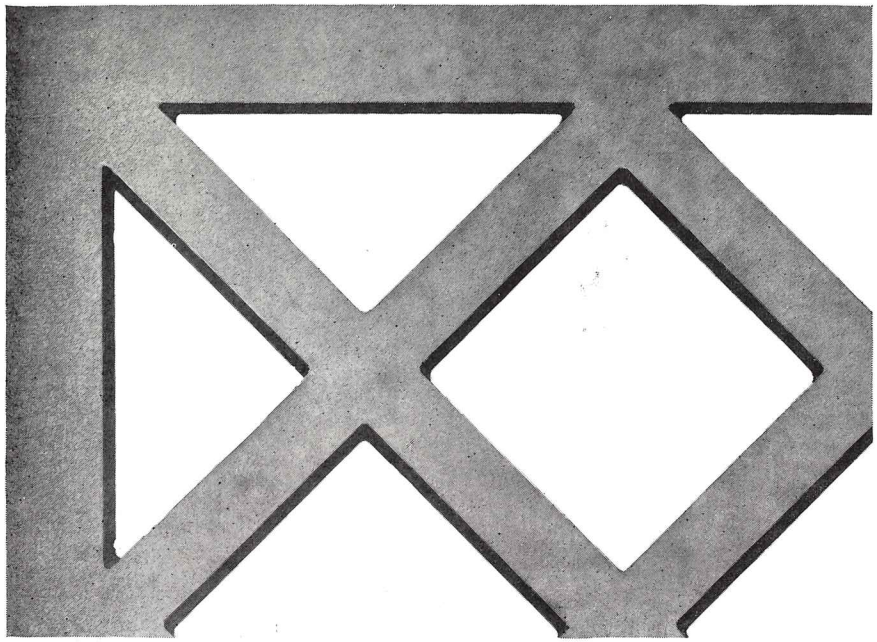
No. of Holes	Opening Sizes		No. of Holes	Opening Sizes		No. of Holes	Opening Sizes	
	Height	Length		Height	Length		Height	Length
3	3⅛"	1¾"	49	43⅜"	42"	95	83⅝"	82¼"
5	4⅞"	3½"	51	45⅛"	43¾"	97	85⅜"	84"
7	6⅝"	5¼"	53	46⅞"	45½"	99	87⅛"	85¾"
9	8⅜"	7"	55	48⅝"	47¼"	101	88⅞"	87½"
11	10⅛"	8¾"	57	50⅜"	49"	103	90⅝"	89¼"
13	11⅞"	10½"	59	52⅛"	50¾"	105	92⅜"	91"
15	13⅝"	12¼"	61	53⅞"	52½"	107	94⅛"	92¾"
17	15⅜"	14"	63	55⅝"	54¼"	109	95⅞"	94½"
19	17⅛"	15¾"	65	57⅜"	56"	111	97⅝"	96¼"
21	18⅞"	17½"	67	59⅛"	57¾"	113	99⅜"	98"
23	20⅝"	19¼"	69	60⅞"	59½"	115	101⅛"	99¾"
25	22⅜"	21"	71	62⅝"	61¼"	117	102⅞"	101½"
27	24⅛"	22¾"	73	64⅜"	63"	119	104⅝"	103¼"
29	25⅞"	24½"	75	66⅛"	64¾"	121	106⅜"	105"
31	27⅝"	26¼"	77	67⅞"	66½"	123	108⅛"	106¾"
33	29⅜"	28"	79	69⅝"	68¼"	125	109⅞"	108½"
35	31⅛"	29¾"	81	71⅜"	70"	127	111⅝"	110¼"
37	32⅞"	31½"	83	73⅛"	71¾"	129	113⅜"	112"
39	34⅝"	33¼"	85	74⅞"	73½"	131	115⅛"	113¾"
41	36⅜"	35"	87	76⅝"	75¼"	133	116⅞"	115½"
43	38⅛"	36¾"	89	78⅜"	77"	135	118⅝"	117¼"
45	39⅞"	38½"	91	80⅛"	78¾"	137	120⅜"	119"
47	41⅝"	40¼"	93	81⅞"	80½"	139	122⅛"	120¾"

Maximum Thickness

STEEL 1/4 inch - BRONZE 1/4 inch - ALUMINUM 1/4 inch

STAINLESS STEEL No. 10 USS - MONEL No. 10 USS

1½ inch DIAGONAL LATTICE GRILLE PATTERN • design D-8

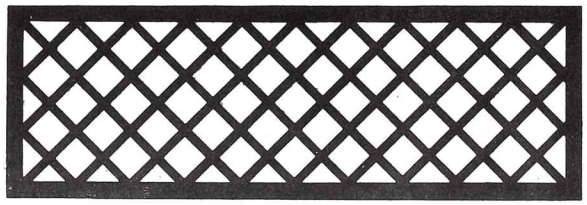


ACTUAL SIZE

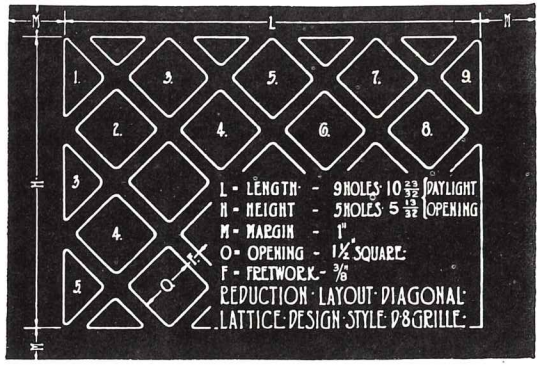
design D-8

1-1/2 inch MESH - 3/8 inch FRETWORK

62% OPEN AREA



62% Open Area


L - LENGTH - 9 HOLES 10 23/32 DAYLIGHT
H - HEIGHT - 5 HOLES 5 13/32 OPENING
M - MARGIN - 1"
O - OPENING - 1½ SQUARE
F - FRETWORK - 3/8
REDUCTION LAYOUT DIAGONAL
LATTICE DESIGN STYLE D-8 GRILLE

Made To

48" Width - 120" Length

Larger in Sections

Paneled with Stiffeners

TABLE OF OPENING SIZES

No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes
3	2¾"	29	37 9/32"	55	71 13/16"
5	5 13/32"	31	39 15/16"	57	74 15/32"
7	8 1/16"	33	42 19/32"	59	77⅛"
9	10 23/32"	35	45¼"	61	79 25/32"
11	13⅜"	37	47 29/32"	63	82 7/16"
13	16 1/32"	39	50 9/16"	65	85 3/32"
15	18 11/16"	41	53 7/32"	67	87¾"
17	21 11/32"	43	55⅞"	69	90 13/32"
19	24"	45	58 17/32"	71	93 1/16"
21	26 21/32"	47	61 3/16"	73	95 23/32"
23	29 5/16"	49	63 27/32"	75	98⅜"
25	31 31/32"	51	66½"	77	101 1/32"
27	34⅝"	53	69 5/32"	79	103 11/16"

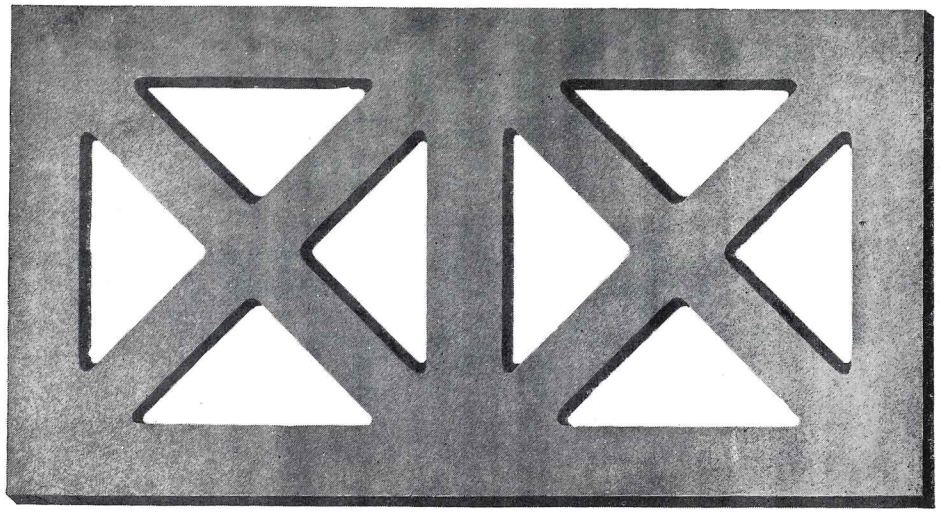
Maximum Thickness

STEEL 1/4 inch - BRONZE 1/4 inch - ALUMINUM 1/4 inch

STAINLESS STEEL No. 10 USS - MONEL No. 10 USS

DIAMOND MANUFACTURING COMPANY
WYOMING - PENNSYLVANIA

1 13/16 inch MALTESE CROSS GRILLE PATTERN · design E-2



ACTUAL SIZE

design E-2

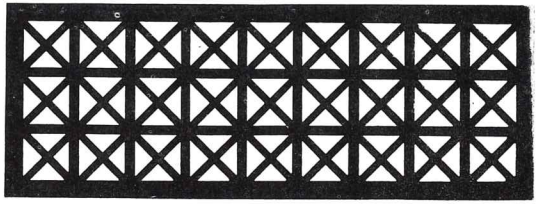
1-13/16 inch MESH - 5/16 inch FRETWORK

3/8 inch CONSTANT BAR

35% OPEN AREA

Made To: 48" Width - 120" Length

Larger in Sections - Paneled with Stiffeners



35%
Open Area

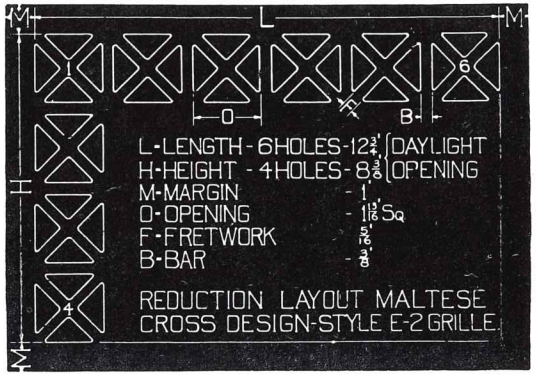


TABLE OF OPENING SIZES

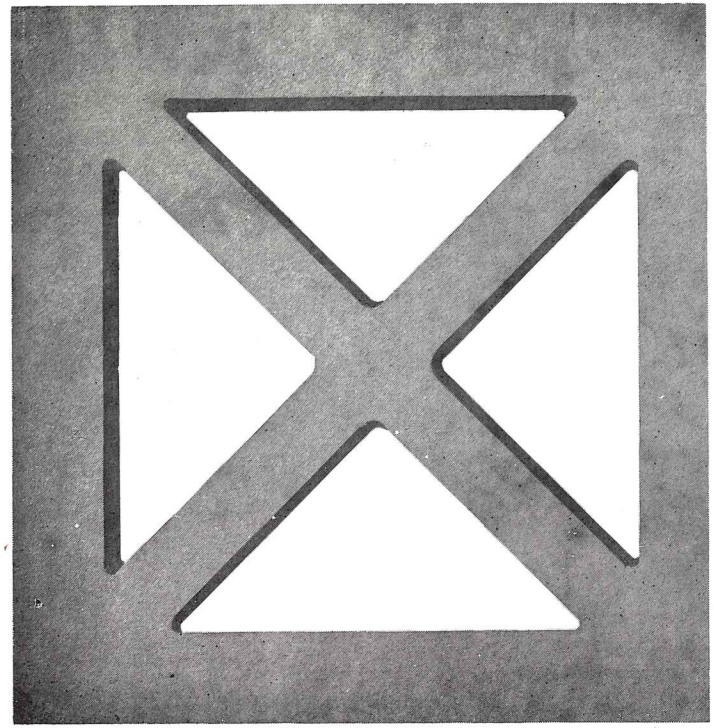
No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes
1	1 13/16"	20	43 3/8"	39	84 15/16"
2	4"	21	45 9/16"	40	87 1/8"
3	6 3/16"	22	47 3/4"	41	89 5/16"
4	8 3/8"	23	49 15/16"	42	91 1/2"
5	10 9/16"	24	52 1/8"	43	93 11/16"
6	12 3/4"	25	54 5/16"	44	95 7/8"
7	14 15/16"	26	56 1/2"	45	98 1/16"
8	17 1/8"	27	58 11/16"	46	100 1/4"
9	19 5/16"	28	60 7/8"	47	102 7/16"
10	21 1/2"	29	63 1/16"	48	104 5/8"
11	23 11/16"	30	65 1/4"	49	106 13/16"
12	25 7/8"	31	67 7/16"	50	109"
13	28 1/16"	32	69 5/8"	51	111 3/16"
14	30 1/4"	33	71 13/16"	52	113 3/8"
15	32 7/16"	34	74"	53	115 9/16"
16	34 5/8"	35	76 3/16"	54	117 3/4"
17	36 13/16"	36	78 3/8"	55	119 15/16"
18	39"	37	80 9/16"	56	122 1/8"
19	41 3/16"	38	82 3/4"		

Maximum Thickness

STEEL 1/4 inch - BRONZE 1/4 inch - ALUMINUM 1/4 inch

STAINLESS STEEL No. 10 USS - MONEL No. 10 USS

2¾ inch MALTESE CROSS GRILLE PATTERN · design E-1

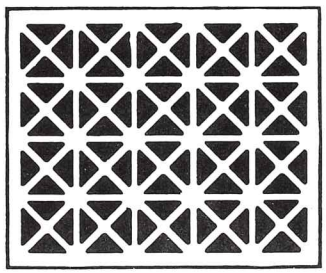


ACTUAL SIZE

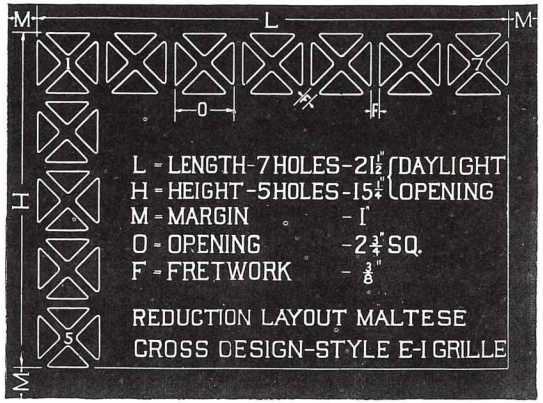
design E-1

2-3/4 inch MESH - 3/8 inch FRETWORK

50% OPEN AREA



50%
Open Area



Made To
48" Width - 120" Length
Larger in Sections
Paneled with Stiffeners

TABLE OF OPENING SIZES

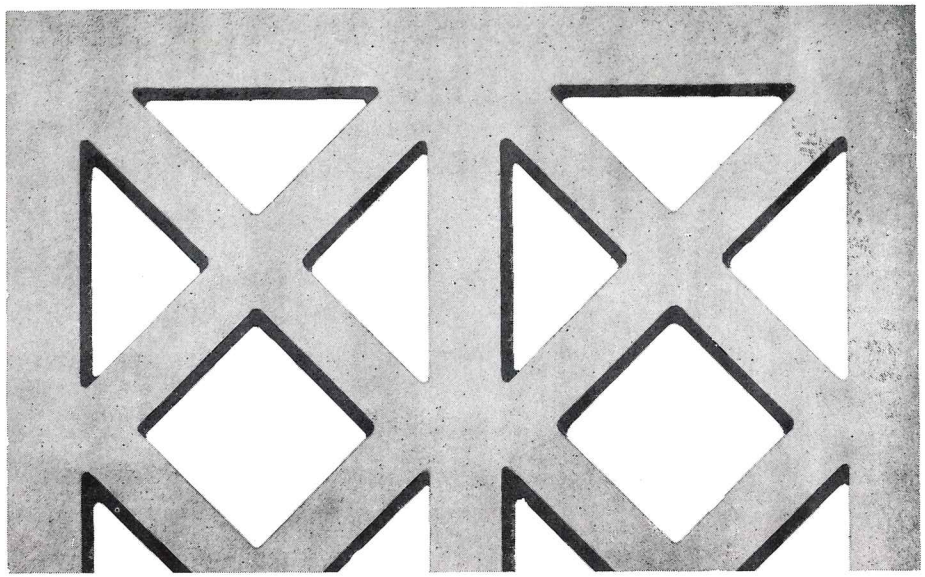
No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes
1	2¾"	17	52¾"	33	102¾"
2	5⅞"	18	55⅞"	34	105⅞"
3	9"	19	59"	35	109"
4	12⅛"	20	62⅛"	36	112⅛"
5	15¼"	21	65¼"	37	115¼"
6	18⅜"	22	68⅜"	38	118⅜"
7	21½"	23	71½"	39	121½"
8	24⅝"	24	74⅝"	40	124⅝"
9	27¾"	25	77¾"	41	127¾"
10	30⅞"	26	80⅞"	42	130⅞"
11	34"	27	84"	43	134"
12	37⅛"	28	87⅛"	44	137⅛"
13	40¼"	29	90¼"	45	140¼"
14	43⅜"	30	93⅜"	46	143⅜"
15	46½"	31	96½"	47	146½"
16	49⅝"	32	99⅝"	48	149⅝"

Maximum Thickness

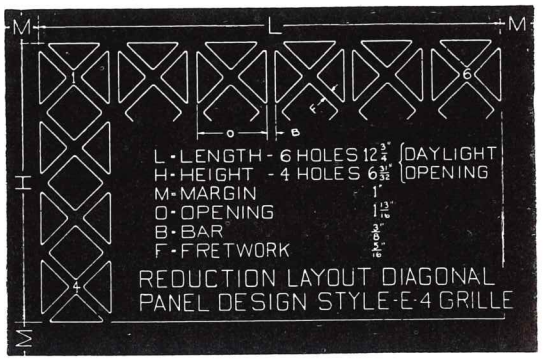
STEEL 1/4 inch - BRONZE 1/4 inch - ALUMINUM 1/4 inch

STAINLESS STEEL No. 10 USS - MONEL No. 10 USS

1 13/16 inch DIAGONAL PANEL GRILLE PATTERN · design E-4



ACTUAL SIZE



48%
Open Area

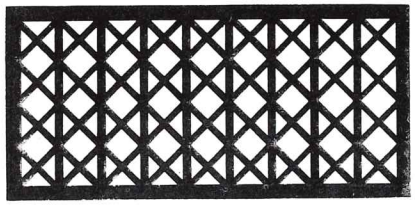
Made To
48" Width - 120" Length
Larger in Sections
Paneled with Stiffeners

design E-4

1-13/16 inch MESH - 5/16 inch FRETWORK

3/8 inch CONSTANT BAR

48% OPEN AREA



Maximum Thickness

STEEL 1/4 inch - BRONZE 1/4 inch

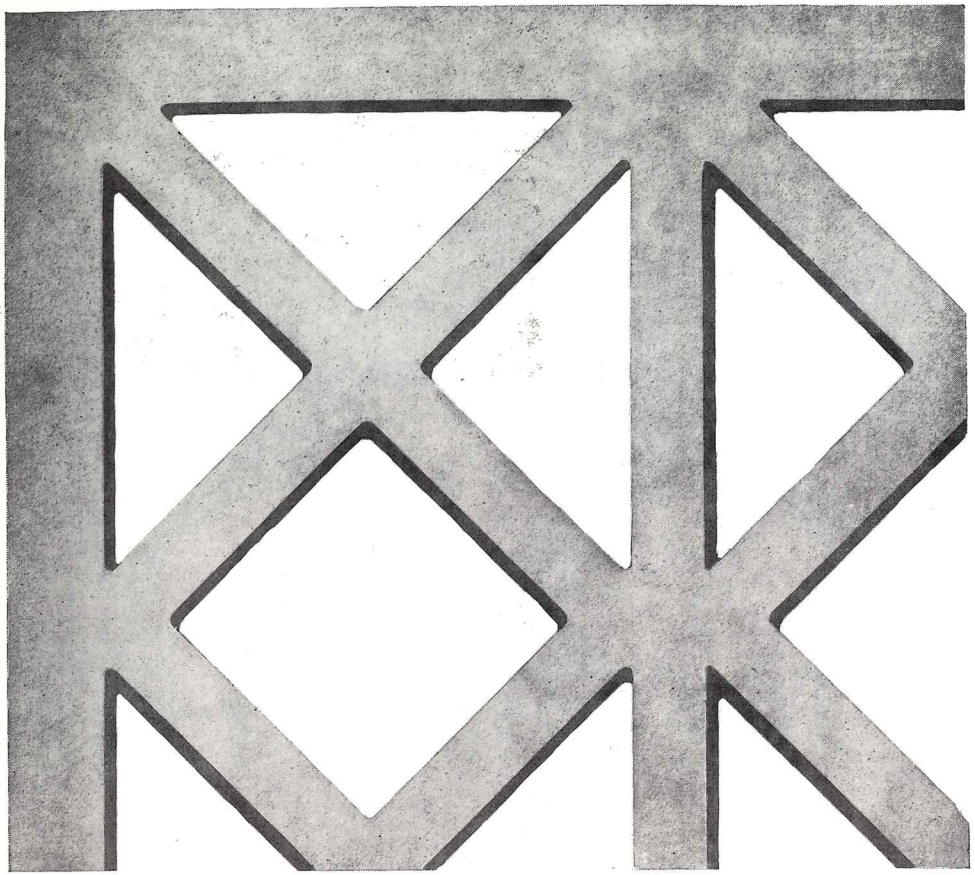
ALUMINUM 1/4 inch - MONEL No. 10 USS

STAINLESS STEEL No. 10 USS

TABLE OF OPENING SIZES

No. of Holes	Opening Sizes Length	Opening Sizes Height	No. of Holes	Opening Sizes Length	Opening Sizes Height
1	1 13/16"	1 13/16"	29	63 1/16"	49 15/16"
2	4"	3 17/32"	30	65 1/4"	51 21/32"
3	6 3/16"	5 1/4"	31	67 7/16"	53 3/8"
4	8 3/8"	6 31/32"	32	69 5/8"	55 3/32"
5	10 9/16"	8 11/16"	33	71 13/16"	56 13/16"
6	12 3/4"	10 13/32"	34	74"	58 17/32"
7	14 15/16"	12 1/8"	35	76 3/16"	60 1/4"
8	17 1/8"	13 27/32"	36	78 3/8"	61 31/32"
9	19 5/16"	15 9/16"	37	80 9/16"	63 11/16"
10	21 1/2"	17 9/32"	38	82 3/4"	65 13/32"
11	23 11/16"	19"	39	84 15/16"	67 1/8"
12	25 7/8"	20 23/32"	40	87 1/8"	68 27/32"
13	28 1/16"	22 7/16"	41	89 3/4"	70 9/16"
14	30 1/4"	24 5/32"	42	91 1/2"	72 9/32"
15	32 7/16"	25 7/8"	43	93 11/16"	74"
16	34 5/8"	27 19/32"	44	95 7/8"	75 23/32"
17	36 13/16"	29 5/16"	45	98 1/16"	77 7/16"
18	39"	31 1/32"	46	100 1/4"	79 5/32"
19	41 3/16"	32 3/4"	47	102 7/16"	80 7/8"
20	43 3/8"	34 15/32"	48	104 5/8"	82 19/32"
21	45 9/16"	36 3/16"	49	106 13/16"	84 5/16"
22	47 3/4"	37 29/32"	50	109"	86 1/32"
23	49 15/16"	39 5/8"	51	111 3/16"	87 3/4"
24	52 1/8"	41 11/32"	52	113 3/8"	89 15/32"
25	54 5/16"	43 1/16"	53	115 9/16"	91 3/16"
26	56 1/2"	44 25/32"	54	117 3/4"	92 29/32"
27	58 11/16"	46 1/2"	55	119 15/16"	94 5/8"
28	60 7/8"	48 7/32"			

2¾ inch DIAGONAL LATTICE GRILLE PATTERN · design E-3



ACTUAL SIZE

design E-3

2-3/4 inch MESH - 3/8 inch FRETWORK

53% OPEN AREA

Made To: 48" Width - 120" Length

Larger in Sections - Paneled with Stiffeners

53% Open Area

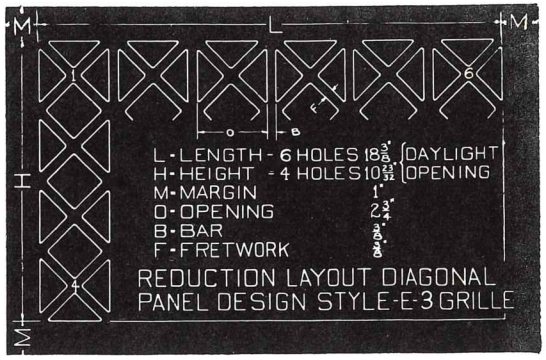
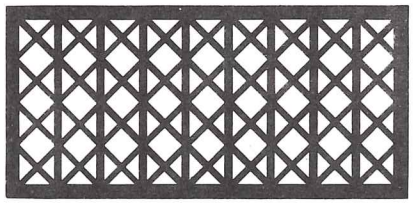


TABLE OF OPENING SIZES

No. of Holes	Opening Sizes		No. of Holes	Opening Sizes	
	Length	Height		Length	Height
1	2¾"	2¾"	24	74⅝"	63 27/32"
2	5⅞"	5 13/32"	25	77¾"	66½"
3	9"	8 1/16"	26	80⅞"	69 5/32"
4	12⅛"	10 23/32"	27	84"	71 13/16"
5	15¼"	13⅜"	28	87⅛"	74 15/32"
6	18⅜"	16 1/32"	29	90¼"	77⅛"
7	21½"	18 11/16"	30	93⅜"	79 25/32"
8	24⅝"	21 11/32"	31	96½"	82 7/16"
9	27¾"	24"	32	99⅝"	85 3/32"
10	30⅞"	26 21/32"	33	102¾"	87¾"
11	34"	29 5/16"	34	105⅞"	90 13/32"
12	37⅛"	31 31/32"	35	109"	93 1/16"
13	40¼"	34⅝"	36	112⅛"	95 23/32"
14	43⅜"	37 9/32"	37	115¼"	98⅜"
15	46½"	39 15/16"	38	118⅜"	101 1/32"
16	49⅝"	42 19/32"	39	121½"	103 11/16"
17	52¾"	45¼"	40		106 11/32"
18	55⅞"	47 29/32"	41		109"
19	59"	50 9/16"	42		111 21/32"
20	62⅛"	53 7/32"	43		114 5/16"
21	65¼"	55⅞"	44		116 31/32"
22	68⅜"	58 17/32"	45		119⅝"
23	71½"	61 3/16"			



Maximum Thickness

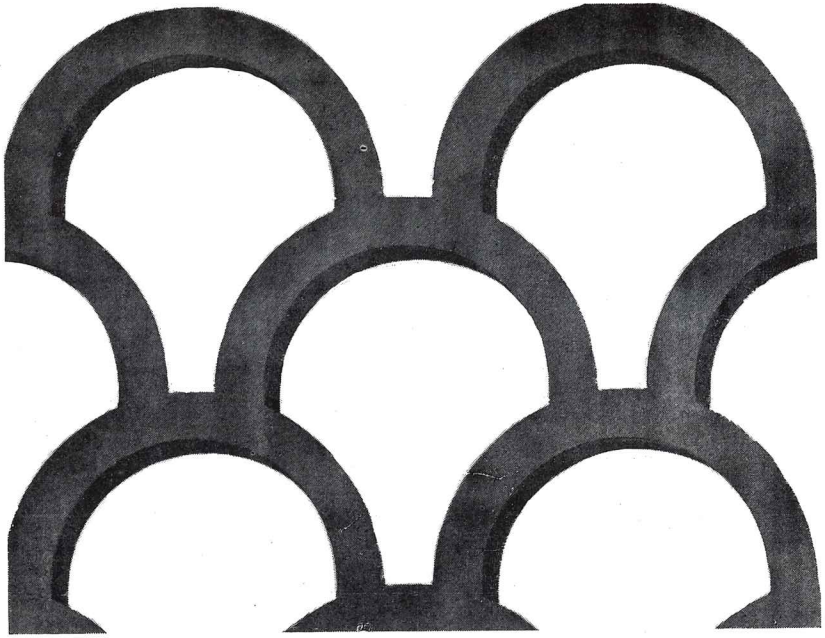
STEEL 1/4 inch - BRONZE 1/4 inch - ALUMINUM 1/4 inch

STAINLESS STEEL No. 10 USS - MONEL No. 10 USS

DIAMOND MANUFACTURING COMPANY

WYOMING - PENNSYLVANIA

1½ x 1¾ inch TEAR DROP GRILLE PATTERN · design F-1

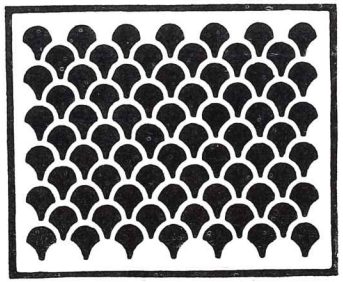


ACTUAL SIZE

design F-1

1-1/2 x 1-3/4 inch MESH - 1/4 inch FRETWORK

65% OPEN AREA



Made To

48" Width - 120" Length

Larger in Sections

Paneled with Stiffeners

65%
Open Area

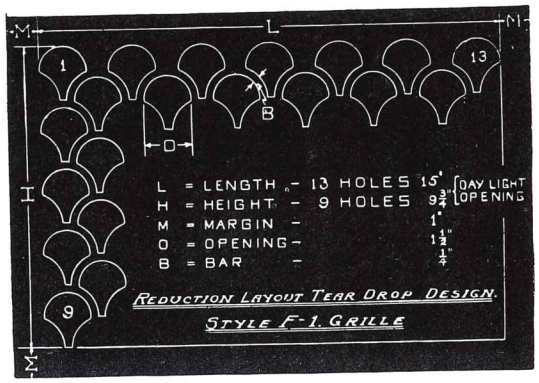


TABLE OF OPENING SIZES

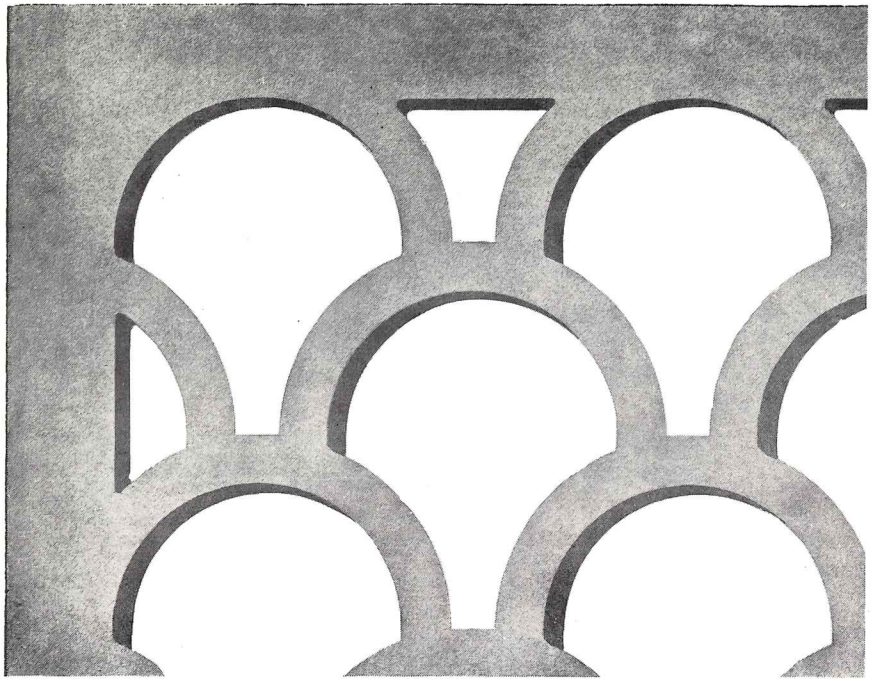
No. of Holes	Opening Sizes		No. of Holes	Opening Sizes		No. of Holes	Opening Sizes	
	Length	Height		Length	Height		Length	Height
3	3¾"	3¾"	39	44¼"	39¾"	75	84¾"	75¾"
5	6"	5¾"	41	46½"	41¾"	77	87"	77¾"
7	8¼"	7¾"	43	48¾"	43¾"	79	89¼"	79¾"
9	10½"	9¾"	45	51"	45¾"	81	91½"	81¾"
11	12¾"	11¾"	47	53¼"	47¾"	83	93¾"	83¾"
13	15"	13¾"	49	55½"	49¾"	85	96"	85¾"
15	17¼"	15¾"	51	57¾"	51¾"	87	98¼"	87¾"
17	19½"	17¾"	53	60"	53¾"	89	100½"	89¾"
19	21¾"	19¾"	55	62¼"	55¾"	91	102¾"	91¾"
21	24"	21¾"	57	64½"	57¾"	93	105"	93¾"
23	26¼"	23¾"	59	66¾"	59¾"	95	107¼"	95¾"
25	28½"	25¾"	61	69"	61¾"	97	109½"	97¾"
27	30¾"	27¾"	63	71¼"	63¾"	99	111¾"	99¾"
29	33"	29¾"	65	73½"	65¾"	101	114"	101¾"
31	35¼"	31¾"	67	75¾"	67¾"	103	116¼"	103¾"
33	37½"	33¾"	69	78"	69¾"	105	118½"	105¾"
35	39¾"	35¾"	71	80¼"	71¾"	107	120¾"	107¾"
37	42"	37¾"	73	82½"	73¾"			

Maximum Thickness

STEEL 1/4 inch - BRONZE 1/4 inch - ALUMINUM 1/4 inch

STAINLESS STEEL No. 10 USS - MONEL No. 10 USS

1½ x 1¾ inch TEAR DROP GRILLE PATTERN (with part holes) • design F-2



ACTUAL SIZE

design F-2

1-1/2 x 1-3/4 inch MESH - 1/4 inch FRETWORK

66% OPEN AREA

66%
Open Area

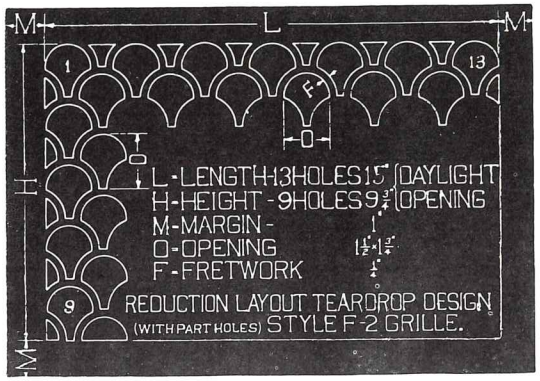
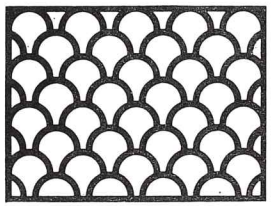


TABLE OF OPENING SIZES

No. of Holes	Opening Sizes		No. of Holes	Opening Sizes		No. of Holes	Opening Sizes	
	Length	Height		Length	Height		Length	Height
3	3¾″	3¾″	39	44¼″	39¾″	75	84¾″	75¾″
5	6″	5¾″	41	46½″	41¾″	77	87″	77¾″
7	8¼″	7¾″	43	48¾″	43¾″	79	89¼″	79¾″
9	10½″	9¾″	45	51″	45¾″	81	91½″	81¾″
11	12¾″	11¾″	47	53¼″	47¾″	83	93¾″	83¾″
13	15″	13¾″	49	55½″	49¾″	85	96″	85¾″
15	17¼″	15¾″	51	57¾″	51¾″	87	98¼″	87¾″
17	19½″	17¾″	53	60″	53¾″	89	100½″	89¾″
19	21¾″	19¾″	55	62¼″	55¾″	91	102¾″	91¾″
21	24″	21¾″	57	64½″	57¾″	93	105″	93¾″
23	26¼″	23¾″	59	66¾″	59¾″	95	107¼″	95¾″
25	28½″	25¾″	61	69″	61¾″	97	109½″	97¾″
27	30¾″	27¾″	63	71¼″	63¾″	99	111¾″	99¾″
29	33″	29¾″	65	73½″	65¾″	101	114″	101¾″
31	35¼″	31¾″	67	75¾″	67¾″	103	116¼″	103¾″
33	37½″	33¾″	69	78″	69¾″	105	118½″	105¾″
35	39¾″	35¾″	71	80¼″	71¾″	107	120¾″	107¾″
37	42″	37¾″	73	82½″	73¾″			

Made To
48″ Width - 120″ Length
Larger in Sections
Paneled with Stiffeners

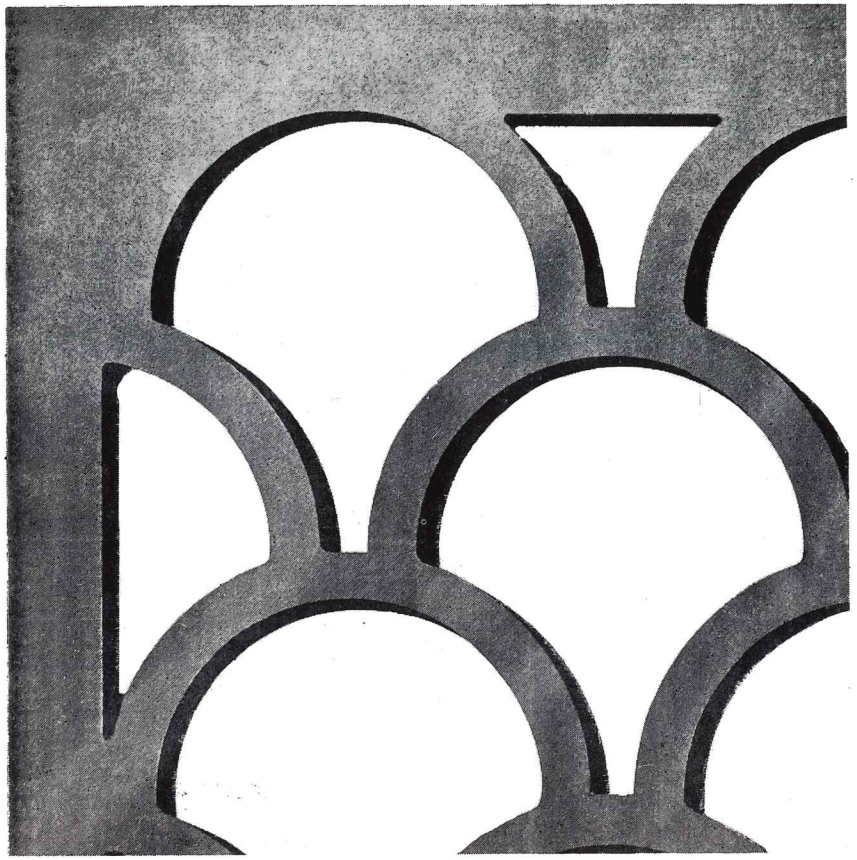


Maximum Thickness

STEEL 1/4 inch - BRONZE 1/4 inch - ALUMINUM 1/4 inch

STAINLESS STEEL No. 10 USS - MONEL No. 10 USS

2 x 2¼ inch TEAR DROP (with part holes) GRILLE PATTERN • design F-4



ACTUAL SIZE

design F-4

2 x 2-1/4 inch MESH - 1/4 inch FRETWORK

72% OPEN AREA

Made To: 48" Width - 120" Length

Larger in Sections - Paneled with Stiffeners

72% Open Area

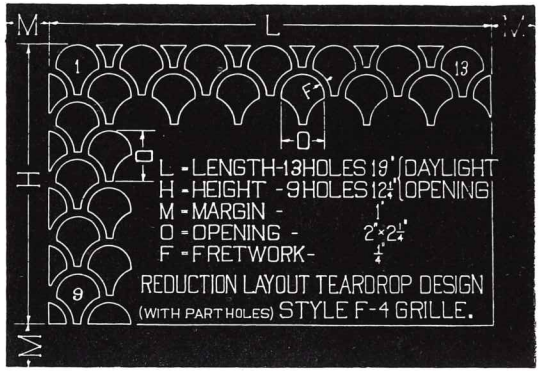
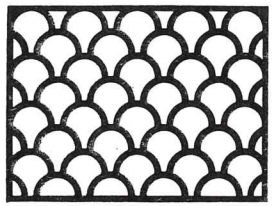


TABLE OF OPENING SIZES

No. of Holes	Opening Sizes		No. of Holes	Opening Sizes		No. of Holes	Opening Sizes	
	Length	Height		Length	Height		Length	Height
3	5¼"	4¾"	35	49¼"	44¾"	67	93¼"	84¾"
5	8"	7¼"	37	52"	47¼"	69	96"	87¼"
7	10¾"	9¾"	39	54¾"	49¾"	71	98¾"	89¾"
9	13½"	12¼"	41	57½"	52¼"	73	101½"	92¼"
11	16¼"	14¾"	43	60¼"	54¾"	75	104¼"	94¾"
13	19"	17¼"	45	63"	57¼"	77	107"	97¼"
15	21¾"	19¾"	47	65¾"	59¾"	79	109¾"	99¾"
17	24½"	22¼"	49	68½"	62¼"	81	112½"	102¼"
19	27¼"	24¾"	51	71¼"	64¾"	83	115¼"	104¾"
21	30"	27¼"	53	74"	67¼"	85	118"	107¼"
23	32¾"	29¾"	55	76¾"	69¾"	87	120¾"	109¾"
25	35½"	32¼"	57	79½"	72¼"	89	123½"	112¼"
27	38¼"	34¾"	59	82¼"	74¾"	91	126¼"	114¾"
29	41"	37¼"	61	85"	77¼"	93	129"	117¼"
31	43¾"	39¾"	63	87¾"	79¾"	95	131¾"	119¾"
33	46½"	42¼"	65	90½"	82¼"	97	134½"	122¼"



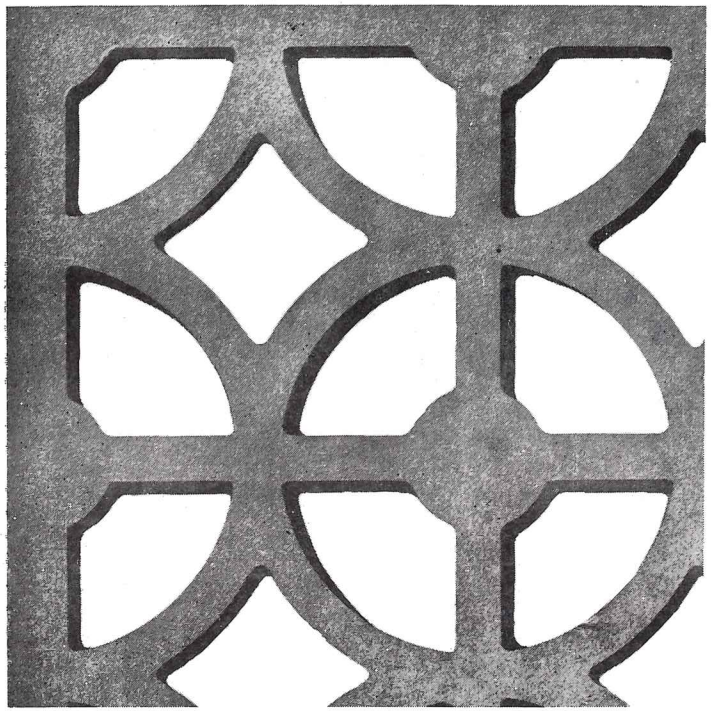
Maximum Thickness

STEEL 3/16 inch - BRONZE 1/4 inch

ALUMINUM 1/4 inch - MONEL No. 10 USS

STAINLESS STEEL No. 10 USS

2 inch DORIC GRILLE PATTERN · design G-1

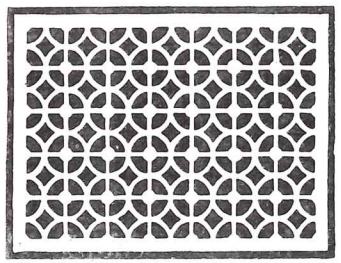


ACTUAL SIZE

design G-1

2 inch MESH - 1/4 inch FRETWORK

50% OPEN AREA



50%
Open Area

Made To

48" Width - 120" Length

Larger in Sections

Paneled with Stiffeners

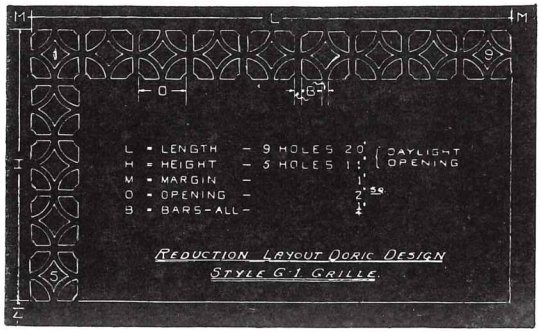

L = LENGTH - 9 HOLES 20" (DAYLIGHT
H = HEIGHT - 5 HOLES 1' OPENING
M = MARGIN -
O = OPENING -
B = BARS-ALL-
REDUCTION LAYOUT DORIC DESIGN
STYLE G-1 GRILLE.

TABLE OF OPENING SIZES

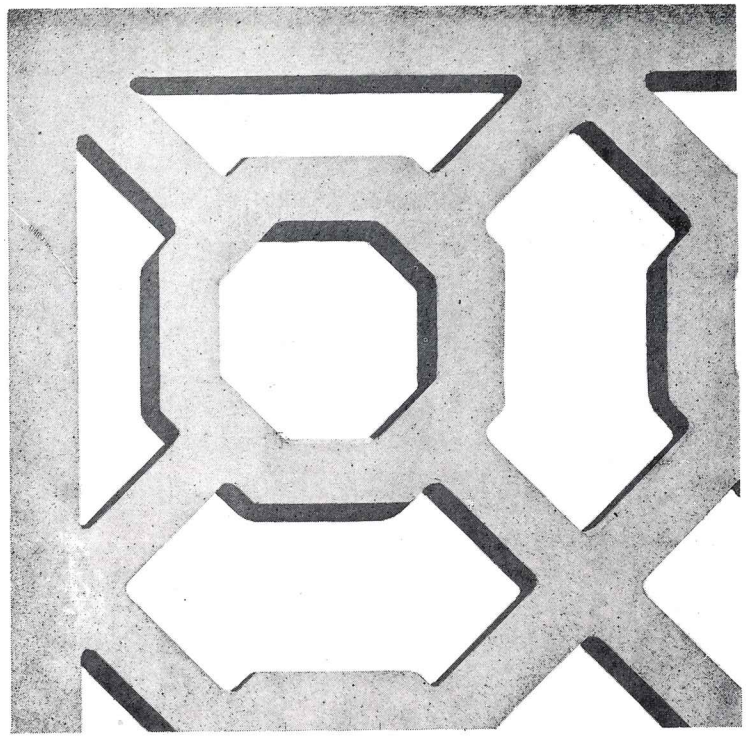
No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes
1	2"	19	42½"	37	83"
2	4¼"	20	44¾"	38	85¼"
3	6½"	21	47"	39	87½"
4	8¾"	22	49¼"	40	89¾"
5	11"	23	51½"	41	92"
6	13¼"	24	53¾"	42	94¼"
7	15½"	25	56"	43	96½"
8	17¾"	26	58¼"	44	98¾"
9	20"	27	60½"	45	101"
10	22¼"	28	62¾"	46	103¼"
11	24½"	29	65"	47	105½"
12	26¾"	30	67¼"	48	107¾"
13	29"	31	69½"	49	110"
14	31¼"	32	71¾"	50	112¼"
15	33½"	33	74"	51	114½"
16	35¾"	34	76¼"	52	116¾"
17	38"	35	78½"	53	119"
18	40¼"	36	80¾"		

Maximum Thickness

STEEL 1/4 inch - BRONZE 1/4 inch - ALUMINUM 1/4 inch

MONEL No. 10 USS - STAINLESS STEEL No. 10 USS

2 5/8 inch EGYPTIAN GRILLE PATTERN . design G-2

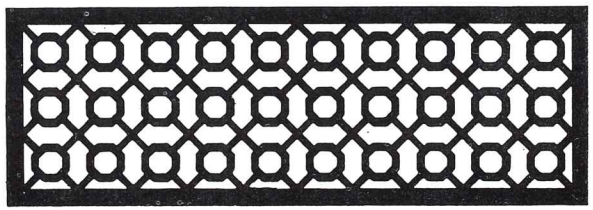


ACTUAL SIZE

design G-2

2-5/8 inch MESH - 5/16 inch FRETWORK

70% OPEN AREA



70% Open Area

Made To

48" Width - 120" Length

Larger in Sections

Paneled with Stiffeners

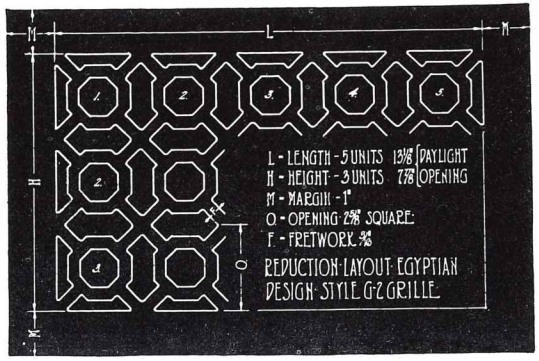


TABLE OF OPENING SIZES

No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes
1	2⅝"	17	44⅝"	33	86⅝"
2	5¼"	18	47¼"	34	89¼"
3	7⅞"	19	49⅞"	35	91⅞"
4	10½"	20	52½"	36	94½"
5	13⅛"	21	55⅛"	37	97⅛"
6	15¾"	22	57¾"	38	99¾"
7	18⅜"	23	60⅜"	39	102⅜"
8	21"	24	63"	40	105"
9	23⅝"	25	65⅝"	41	107⅝"
10	26¼"	26	68¼"	42	110¼"
11	28⅞"	27	70⅞"	43	112⅞"
12	31½"	28	73½"	44	115½"
13	34⅛"	29	76⅛"	45	118⅛"
14	36¾"	30	78¾"	46	120¾"
15	39⅜"	31	81⅜"		
16	42"	32	84"		

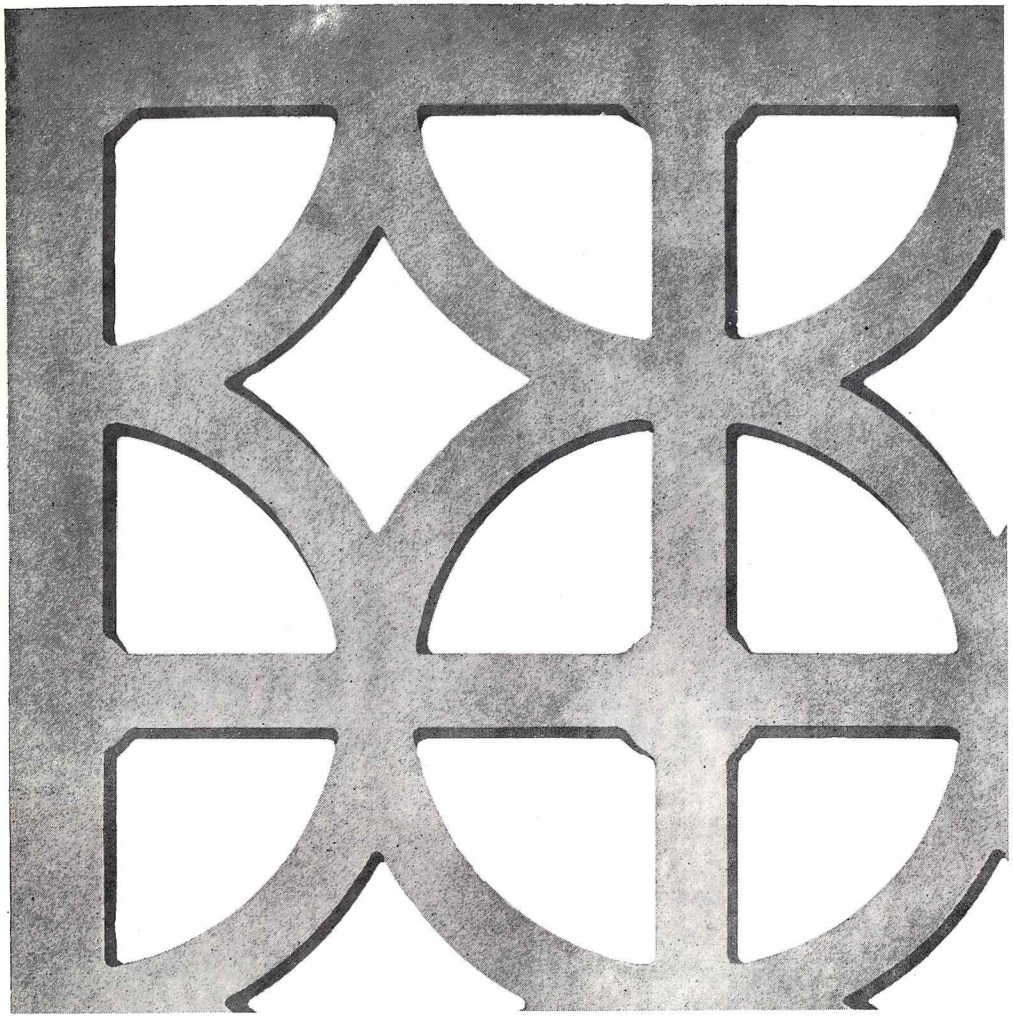
Maximum Thickness

STEEL 3/16 inch - BRONZE 3/16 inch - ALUMINUM 3/16 inch

STAINLESS STEEL No. 10 USS - MONEL No. 10 USS

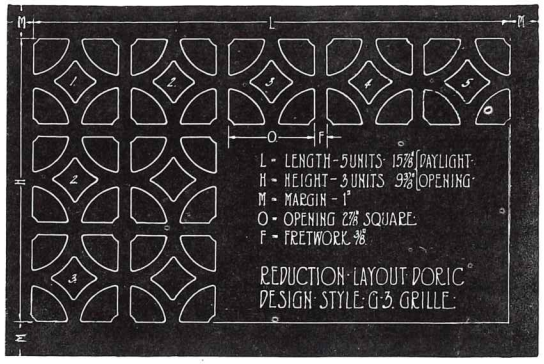
2⅞ inch DORIC GRILLE PATTERN

design G-3



ACTUAL SIZE

60% Open Area


L - LENGTH - 5 UNITS 15⅞ DAYLIGHT
H - HEIGHT - 3 UNITS 9⅜ OPENING
M - MARGIN - 1"
O - OPENING 2⅞ SQUARE
F - FRETWORK ⅜
REDUCTION LAYOUT DORIC
DESIGN STYLE G-3 GRILLE

Made To

48" Width - 120" Length

Larger in Sections

Paneled with Stiffeners

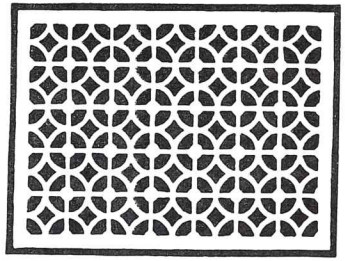
TABLE OF OPENING SIZES

No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes
1	2⅞"	14	45⅛"	26	84⅛"
2	6⅛"	15	48⅜"	27	87⅜"
3	9⅜"	16	51⅝"	28	90⅝"
4	12⅝"	17	54⅞"	29	93⅞"
5	15⅞"	18	58⅛"	30	97⅛"
6	19⅛"	19	61⅜"	31	100⅜"
7	22⅜"	20	64⅝"	32	103⅝"
8	25⅝"	21	67⅞"	33	106⅞"
9	28⅞"	22	71⅛"	34	110⅛"
10	32⅛"	23	74⅜"	35	113⅜"
11	35⅜"	24	77⅝"	36	116⅝"
12	38⅝"	25	80⅞"	37	119⅞"
13	41⅞"				

design G-3

2-7/8 inch MESH - 3/8 inch FRETWORK

60% OPEN AREA



Maximum Thickness

STEEL 1/4 inch

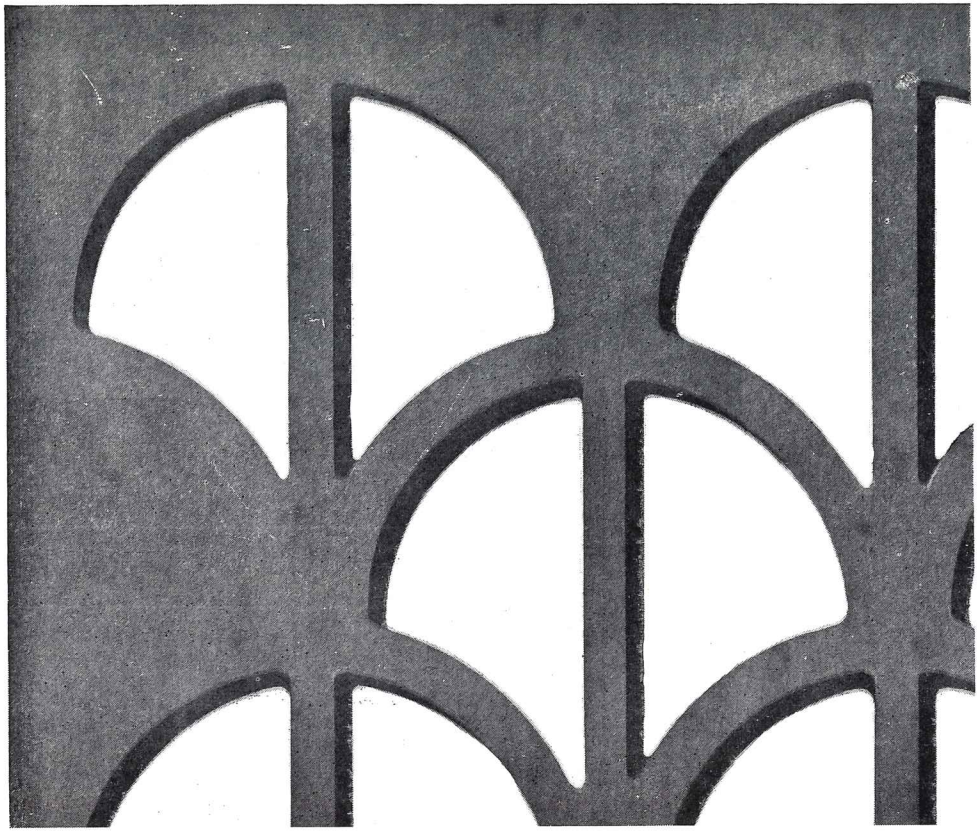
BRONZE 1/4 inch

ALUMINUM 1/4 inch

STAINLESS STEEL No. 10 USS

MONEL No. 10 USS

2½ x 2 inch IONIC GRILLE PATTERN • design H-1



ACTUAL SIZE

design H-1

2-1/2 x 2 inch MESH - 1/4 inch FRETWORK

65% OPEN AREA

Made To: 48" Width - 120" Length

Larger in Sections - Paneled with Stiffeners

65%
Open Area

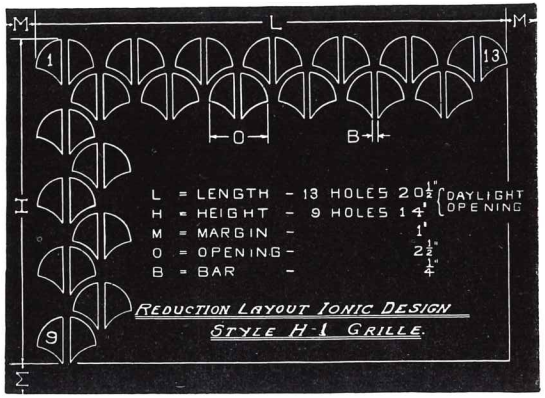
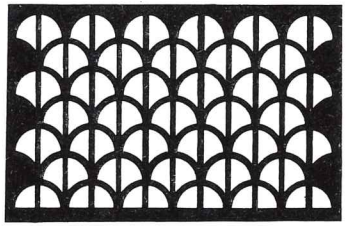


TABLE OF OPENING SIZES

No. of Holes	Opening Sizes		No. of Holes	Opening Sizes	
	Length	Height		Length	Height
3	5½"	5"	41	62½"	62"
5	8½"	8"	43	65½"	65"
7	11½"	11"	45	68½"	68"
9	14½"	14"	47	71½"	71"
11	17½"	17"	49	74½"	74"
13	20½"	20"	51	77½"	77"
15	23½"	23"	53	80½"	80"
17	26½"	26"	55	83½"	83"
19	29½"	29"	57	86½"	86"
21	32½"	32"	59	89½"	89"
23	35½"	35"	61	92½"	92"
25	38½"	38"	63	95½"	95"
27	41½"	41"	65	98½"	98"
29	44½"	44"	67	101½"	101"
31	47½"	47"	69	104½"	104"
33	50½"	50"	71	107½"	107"
35	53½"	53"	73	110½"	110"
37	56½"	56"	75	113½"	113"
39	59½"	59"	77	116½"	116"

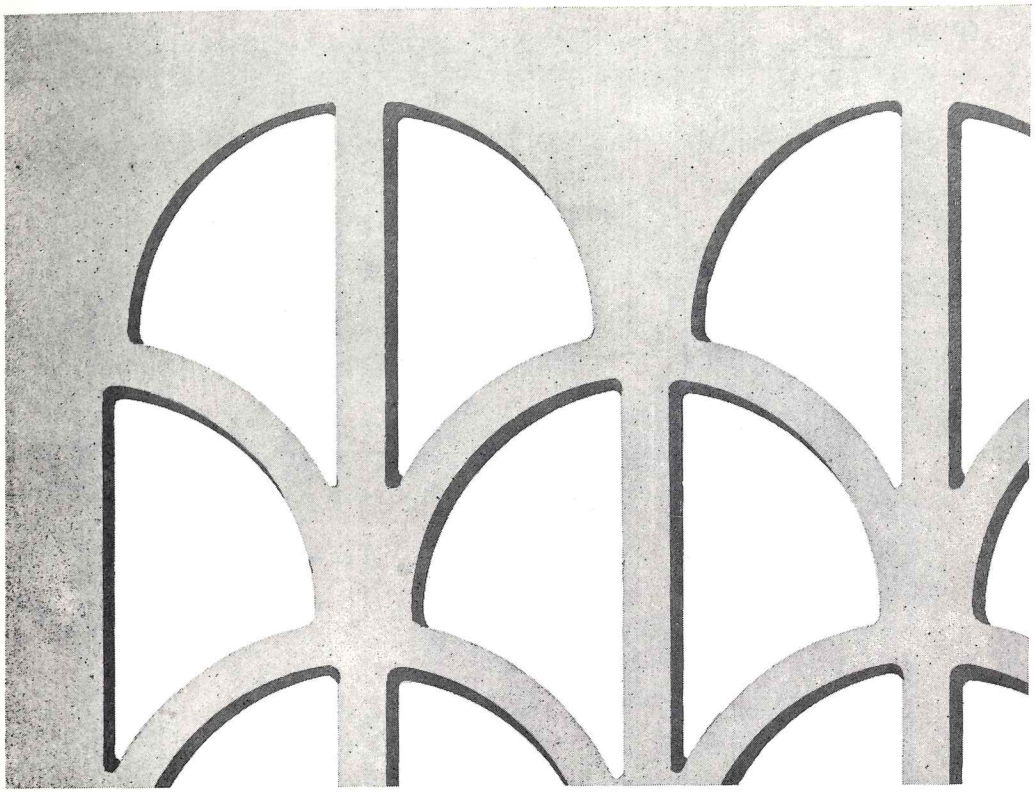


Maximum Thickness

STEEL 3/16 inch - BRONZE 1/4 inch - ALUMINUM 1/4 inch

STAINLESS STEEL No. 10 USS - MONEL No. 10 USS

2½ x 2 inch IONIC GRILLE PATTERN (with half holes) • design H-2



ACTUAL SIZE

design H-2

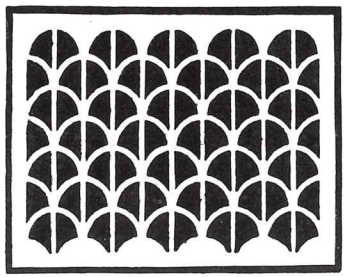
2-1/2 x 2 inch MESH - 1/4 inch FRETWORK

67% OPEN AREA

Made To

48" Width - 120" Length

Larger in Sections - Paneled with Stiffeners



67%
Open Area

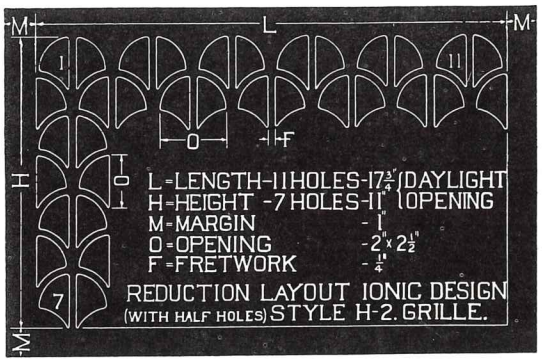


TABLE OF OPENING SIZES

No. of Holes	Opening Sizes		No. of Holes	Opening Sizes	
	Length	Height		Length	Height
1	2½"	2"	41	62¾"	62"
3	5¾"	5"	43	65¾"	65"
5	8¾"	8"	45	68¾"	68"
7	11¾"	11"	47	71¾"	71"
9	14¾"	14"	49	74¾"	74"
11	17¾"	17"	51	77¾"	77"
13	20¾"	20"	53	80¾"	80"
15	23¾"	23"	55	83¾"	83"
17	26¾"	26"	57	86¾"	86"
19	29¾"	29"	59	89¾"	89"
21	32¾"	32"	61	92¾"	92"
23	35¾"	35"	63	95¾"	95"
25	38¾"	38"	65	98¾"	98"
27	41¾"	41"	67	101¾"	101"
29	44¾"	44"	69	104¾"	104"
31	47¾"	47"	71	107¾"	107"
33	50¾"	50"	73	110¾"	110"
35	53¾"	53"	75	113¾"	113"
37	56¾"	56"	77	116¾"	116"
39	59¾"	59"	79	119¾"	119"

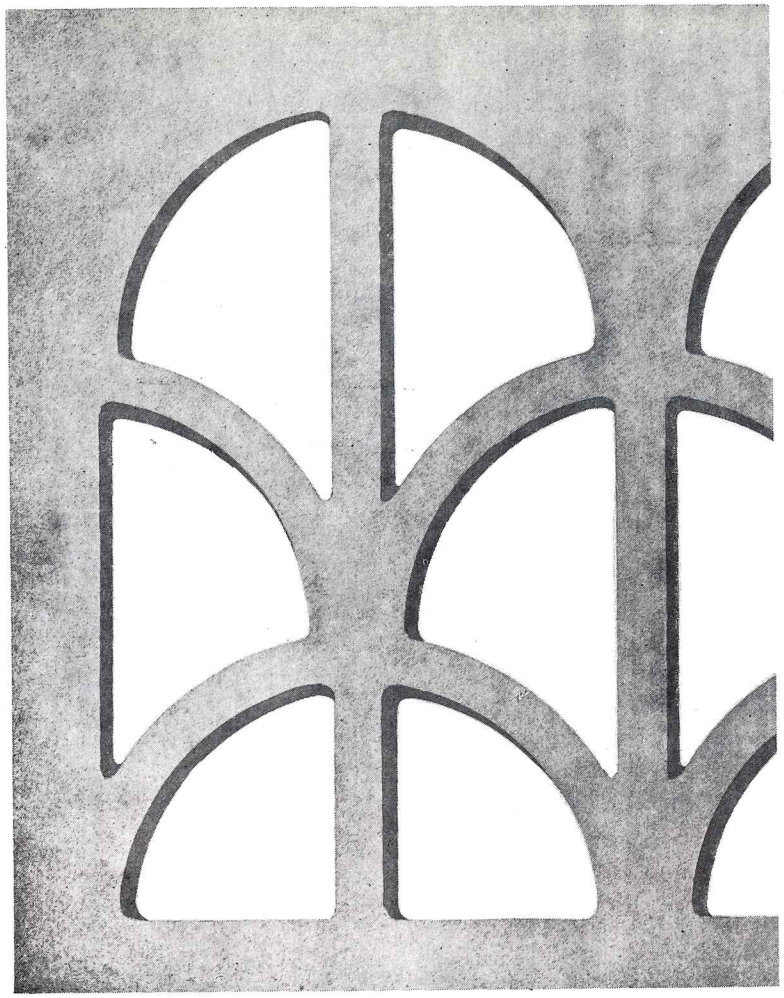
Maximum Thickness

STEEL 3/16 inch - BRONZE 1/4 inch

ALUMINUM 1/4 inch - MONEL No. 10 USS

STAINLESS STEEL No. 10 USS

2½ x 2 inch IONIC SPECIAL GRILLE PATTERN (with half holes at sides and Bottom) • design H-3



ACTUAL SIZE

design H-3

2 1/2 x 2 inch MESH - 1/4 inch FRETWORK

68% OPEN AREA

68%
Open Area

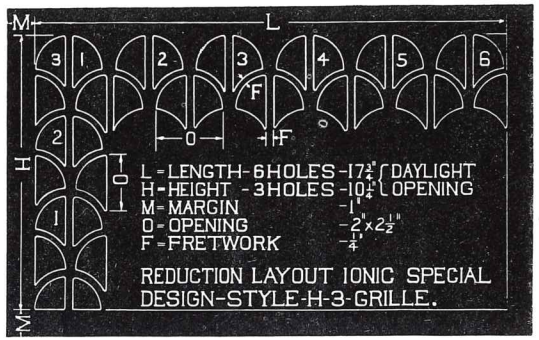
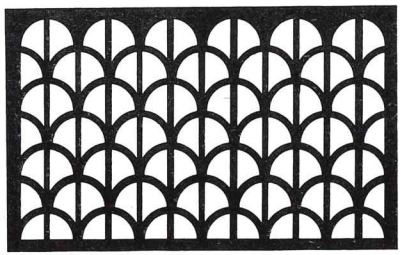

M
L
H
O
F
L = LENGTH - 6 HOLES - 17¾" DAYLIGHT
H = HEIGHT - 3 HOLES - 10¼" OPENING
M = MARGIN - 1"
O = OPENING - 2" x 2½"
F = FRETWORK - ¼"
REDUCTION LAYOUT IONIC SPECIAL DESIGN-STYLE-H-3-GRILLE.

TABLE OF OPENING SIZES

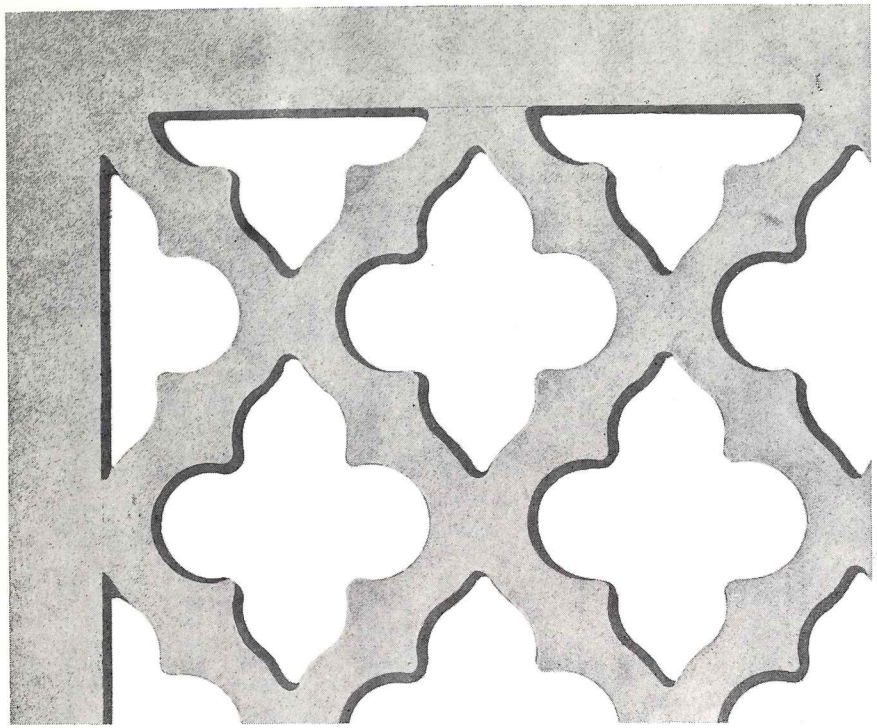
No. of Holes	Opening Sizes		No. of Holes	Opening Sizes		No. of Holes	Opening Sizes	
	Length	Height		Length	Height		Length	Height
1	2¾"	4¼"	15	44¾"	46¼"	28	83¾"	85¼"
2	5¾"	7¼"	16	47¾"	49¼"	29	86¾"	88¼"
3	8¾"	10¼"	17	50¾"	52¼"	30	89¾"	91¼"
4	11¾"	13¼"	18	53¾"	55¼"	31	92¾"	94¼"
5	14¾"	16¼"	19	56¾"	58¼"	32	95¾"	97¼"
6	17¾"	19¼"	20	59¾"	61¼"	33	98¾"	100¼"
7	20¾"	22¼"	21	62¾"	64¼"	34	101¾"	103¼"
8	23¾"	25¼"	22	65¾"	67¼"	35	104¾"	106¼"
9	26¾"	28¼"	23	68¾"	70¼"	36	107¾"	109¼"
10	29¾"	31¼"	24	71¾"	73¼"	37	110¾"	112¼"
11	32¾"	34¼"	25	74¾"	76¼"	38	113¾"	115¼"
12	35¾"	37¼"	26	77¾"	79¼"	39	116¾"	118¼"
13	38¾"	40¼"	27	80¾"	82¼"	40	119¾"	121¼"
14	41¾"	43¼"						



Made To: 48" Width - 120" Length
Larger in Sections - Paneled with Stiffeners

Maximum Thickness: STEEL 3/16 inch - BRONZE 1/4 inch
ALUMINUM 1/4 inch - MONEL No. 10 USS
STAINLESS STEEL No. 10 USS

2 x 2⅛ inch GOTHIC GRILLE PATTERN · design J-1

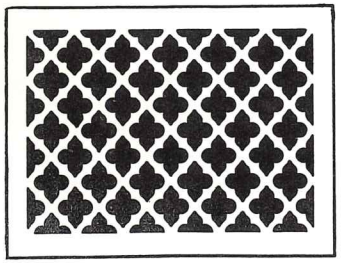


ACTUAL SIZE

design J-1

2 x 2-1/8 inch MESH - 1/4 inch FRETWORK

72% OPEN AREA



Made To
48" Width - 120" Length
Larger in Sections
Paneled with Stiffeners

72%
Open Area

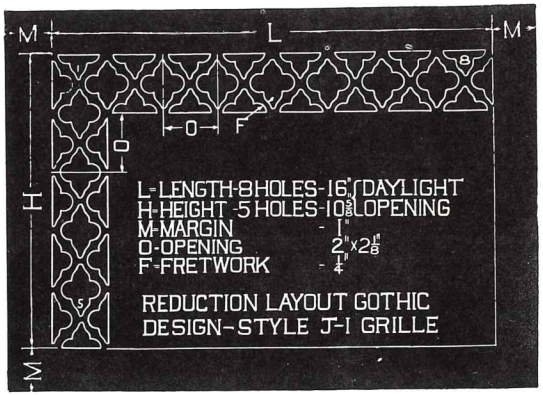


TABLE OF OPENING SIZES

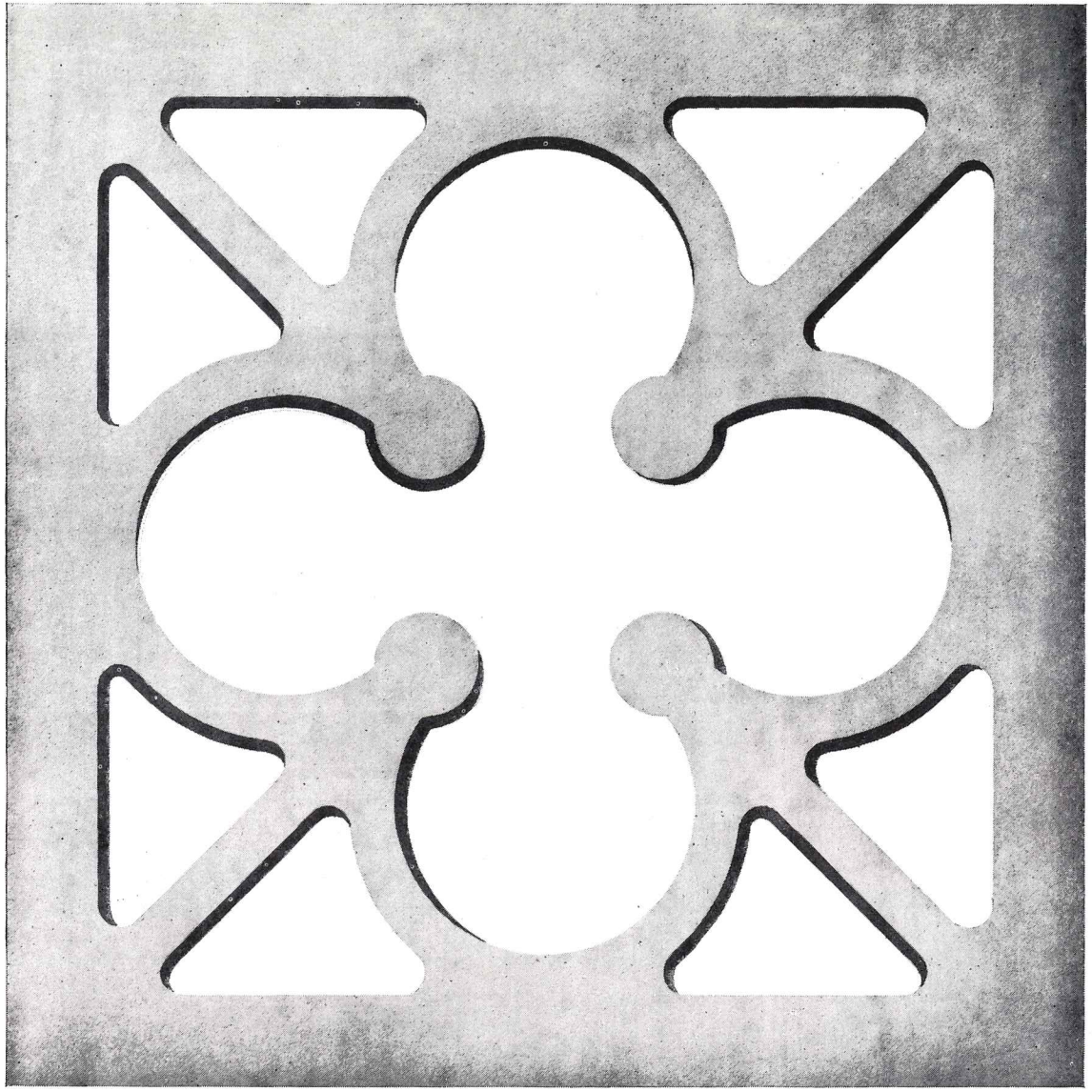
No. of Holes	Opening Sizes		No. of Holes	Opening Sizes		No. of Holes	Opening Sizes	
	Height	Length		Height	Length		Height	Length
1	2⅛"	2"	21	44⅝"	42"	41	87⅛"	82"
2	4¼"	4"	22	46¾"	44"	42	89¼"	84"
3	6⅜"	6"	23	48⅞"	46"	43	91⅜"	86"
4	8½"	8"	24	51"	48"	44	93½"	88"
5	10⅝"	10"	25	53⅛"	50"	45	95⅝"	90"
6	12¾"	12"	26	55¼"	52"	46	97¾"	92"
7	14⅞"	14"	27	57⅜"	54"	47	99⅞"	94"
8	17"	16"	28	59½"	56"	48	102"	96"
9	19⅛"	18"	29	61⅝"	58"	49	104⅛"	98"
10	21¼"	20"	30	63¾"	60"	50	106¼"	100"
11	23⅜"	22"	31	65⅞"	62"	51	108⅜"	102"
12	25½"	24"	32	68"	64"	52	110½"	104"
13	27⅝"	26"	33	70⅛"	66"	53	112⅝"	106"
14	29¾"	28"	34	72¼"	68"	54	114¾"	108"
15	31⅞"	30"	35	74⅜"	70"	55	116⅞"	110"
16	34"	32"	36	76½"	72"	56	119"	112"
17	36⅛"	34"	37	78⅝"	74"	57	121⅛"	114"
18	38¼"	36"	38	80¾"	76"			
19	40⅜"	38"	39	82⅞"	78"			
20	42½"	40"	40	85"	80"			

Maximum Thickness

STEEL No. 10 USS - BRONZE 3/16 inch - ALUMINUM 1/4 inch

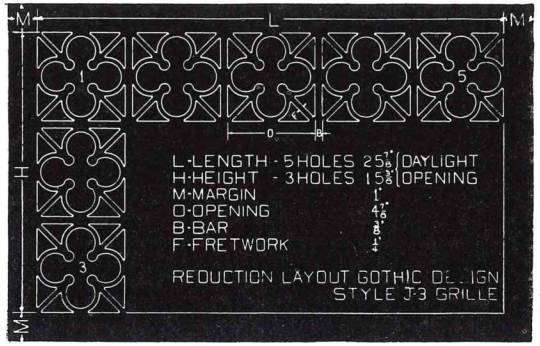
MONEL No. 10 USS - STAINLESS STEEL No. 12 USS

4⅞ inch GOTHIC GRILLE PATTERN • design J-3



ACTUAL SIZE

design J-3



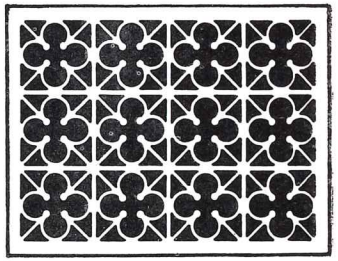
66% OPEN AREA

TABLE OF OPENING SIZES

No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes
1	4⅞"	9	46⅞"	17	88⅞"
2	10⅛"	10	52⅛"	18	94⅛"
3	15⅜"	11	57⅜"	19	99⅜"
4	20⅝"	12	62⅝"	20	104⅝"
5	25⅞"	13	67⅞"	21	109⅞"
6	31⅛"	14	73⅛"	22	115⅛"
7	36⅜"	15	78⅜"	23	120⅜"
8	41⅝"	16	83⅝"		

Made To
48" Width - 120" Length

Larger in Sections
Paneled with Stiffeners



Maximum Thickness: STEEL 3/16 inch - BRONZE 3/16 inch
ALUMINUM 1/4 inch - STAINLESS STEEL No. 10 USS
MONEL No. 10 USS

66% OPEN AREA

4-7/8 inch MESH - 1/4 inch FRETWORK
3/8 inch BAR

5⅝ inch GOTHIC SPECIAL GRILLE PATTERN · design J-2

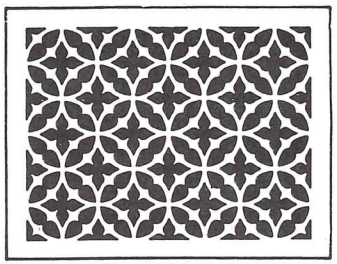
design J-2

5-5/8 inch MESH - 5/16 inch FRETWORK

63% OPEN AREA

Made to 50 inch Width - 120 inch Length

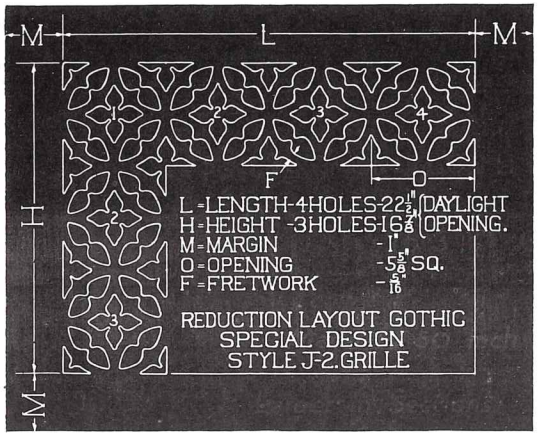
Larger in Sections - Paneled with Stiffeners



Maximum Thickness

STEEL 3/16 inch — BRONZE 3/16 inch — ALUMINUM 1/4 inch

STAINLESS STEEL No. 10 USS — MONEL No. 10 USS

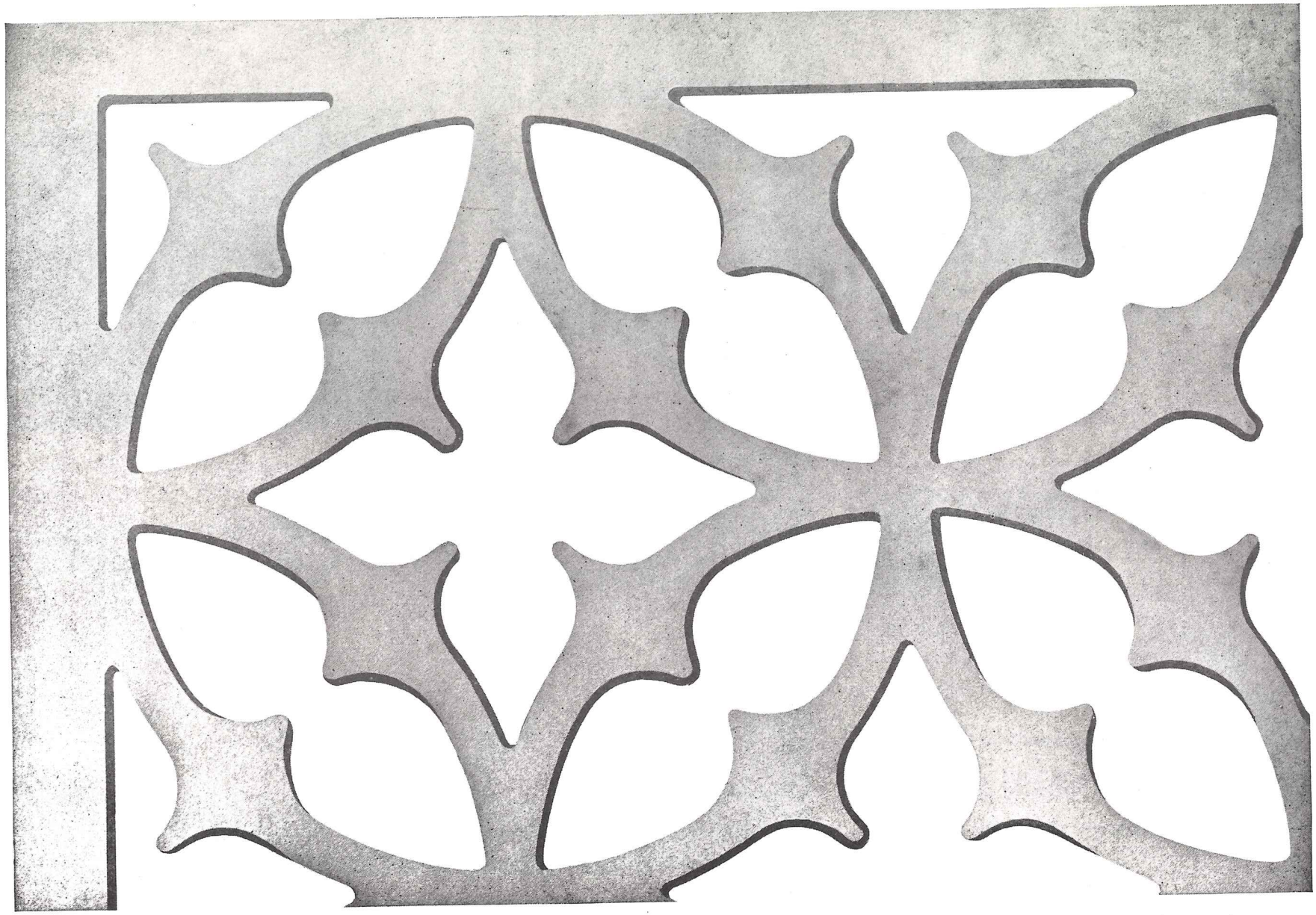


63% Open Area

TABLE OF OPENING SIZES

No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes
1	5⅝″	9	50⅝″	17	95⅝″
2	11¼″	10	56¼″	18	101¼″
3	16⅞″	11	61⅞″	19	106⅞″
4	22½″	12	67½″	20	112½″
5	28⅛″	13	73⅛″	21	118⅛″
6	33¾″	14	78¾″	22	123¾″
7	39⅜″	15	84⅜″		
8	45″	16	90″		

5⅝ inch GOTHIC SPECIAL GRILLE PATTERN · design J-2



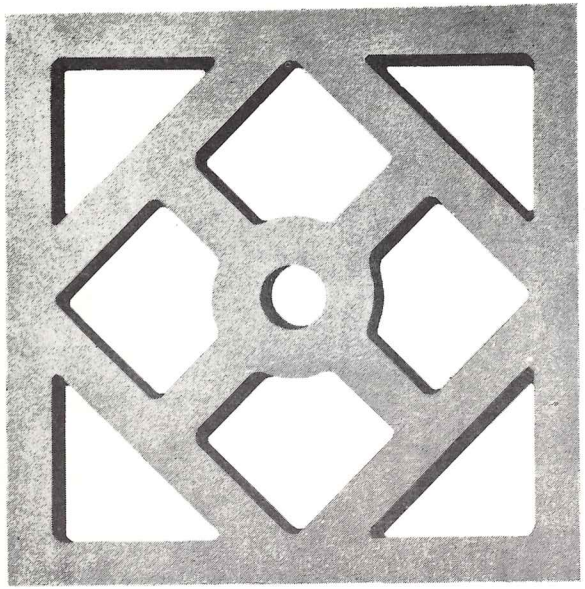
ACTUAL SIZE

63% OPEN AREA

DIAMOND MANUFACTURING COMPANY

WYOMING - PENNSYLVANIA

2½ inch JACK SPECIAL GRILLE PATTERN • design K-1

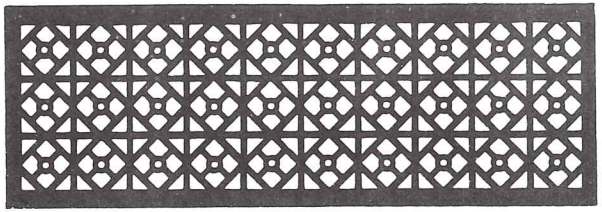


ACTUAL SIZE

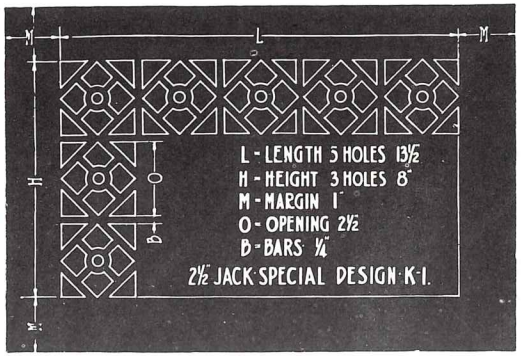
design K-1

2-1/2 inch MESH - 1/4 inch FRETWORK

66% OPEN AREA



66%
Open Area



Made To
48" Width - 120" Length
Larger in Sections
Paneled with Stiffeners

TABLE OF OPENING SIZES

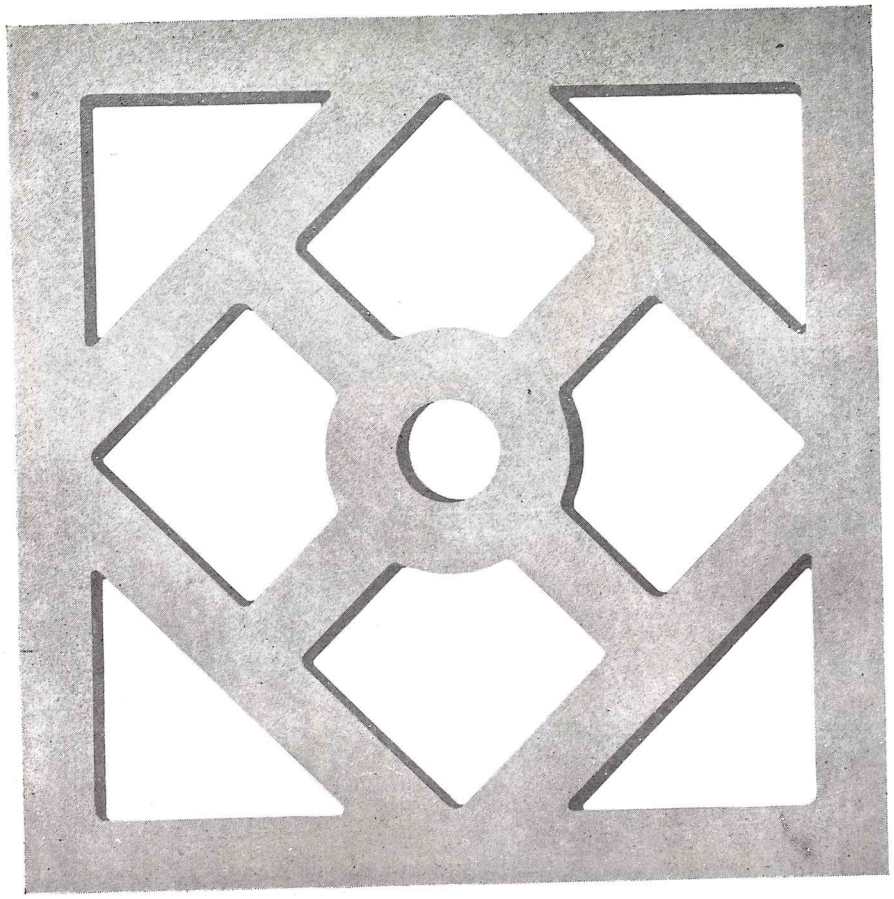
No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes
1	2½"	19	52"	37	101½"
2	5¼"	20	54¾"	38	104¼"
3	8"	21	57½"	39	107"
4	10¾"	22	60¼"	40	109¾"
5	13½"	23	63"	41	112½"
6	16¼"	24	65¾"	42	115¼"
7	19"	25	68½"	43	118"
8	21¾"	26	71¼"	44	120¾"
9	24½"	27	74"	45	123½"
10	27¼"	28	76¾"	46	126¼"
11	30"	29	79½"	47	129"
12	32¾"	30	82¼"	48	131¾"
13	35½"	31	85"	49	134½"
14	38¼"	32	87¾"	50	137¼"
15	41"	33	90½"	51	140"
16	43¾"	34	93¼"	52	142¾"
17	46½"	35	96"	53	145½"
18	49¼"	36	98¾"	54	148¼"

Maximum Thickness

STEEL 3/16 inch - BRONZE 1/4 inch - ALUMINUM 1/4 inch

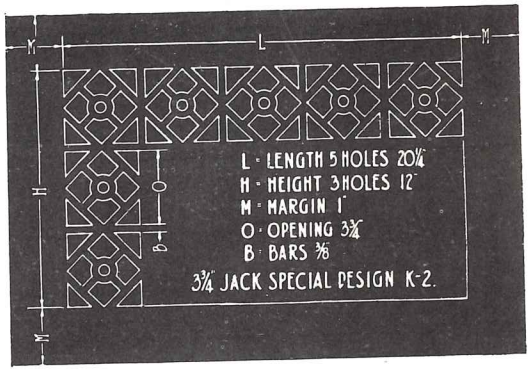
STAINLESS STEEL No. 10 USS - MONEL No. 10 USS

3¾ inch JACK SPECIAL GRILLE PATTERN . design K-2



ACTUAL SIZE

70% Open Area



Made To
48" Width - 120" Length
Larger in Sections
Paneled with Stiffeners

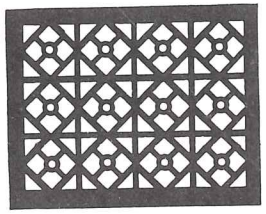
TABLE OF OPENING SIZES

No. of Holes	Opening Sizes	No. of Holes	Opening Sizes
1	3¾"	16	65⅝"
2	7⅞"	17	69¾"
3	12"	18	73⅞"
4	16⅛"	19	78"
5	20¼"	20	82⅛"
6	24⅜"	21	86¼"
7	28½"	22	90⅜"
8	32⅝"	23	94½"
9	36¾"	24	98⅝"
10	40⅞"	25	102¾"
11	45"	26	106⅞"
12	49⅛"	27	111"
13	53¼"	28	115⅛"
14	57⅜"	29	119¼"
15	61½"	30	123⅜"

design K-2

3-3/4 inch MESH - 3/8 inch FRETWORK

70% OPEN AREA



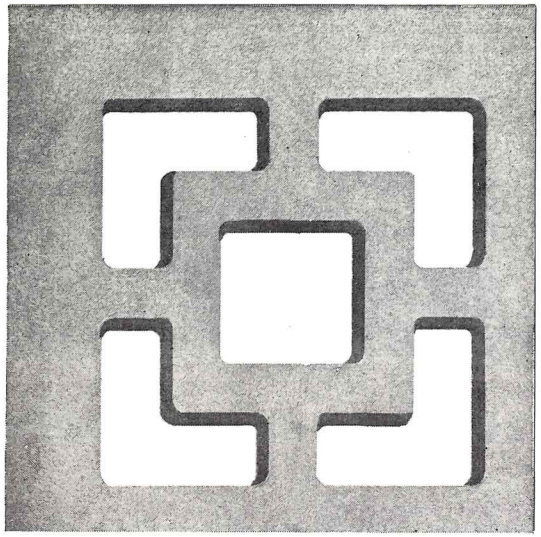
Maximum Thickness

STEEL 3/16 inch - BRONZE 1/4 inch

ALUMINUM 1/4 inch - MONEL No. 10 USS

STAINLESS STEEL No. 10 USS

2 inch GREEK GRILLE PATTERN . design K-3

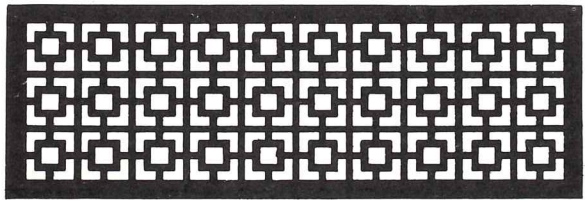


ACTUAL SIZE

design K-3

2 inch MESH - 1/4 inch FRETWORK

58% OPEN AREA



58%
Open Area

Made To

48" Width - 120" Length

Larger in Sections

Paneled with Stiffeners

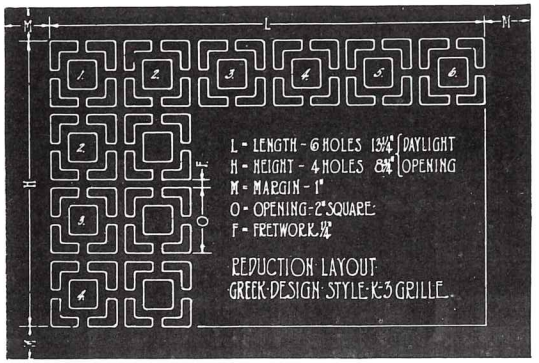

L - LENGTH - 6 HOLES 13¾" DAYLIGHT
H - HEIGHT - 4 HOLES 8¾" OPENING
M - MARGIN - 1"
O - OPENING - 2" SQUARE
F - FRETWORK ½"
REDUCTION LAYOUT
GREEK DESIGN STYLE K-3 GRILLE

TABLE OF OPENING SIZES

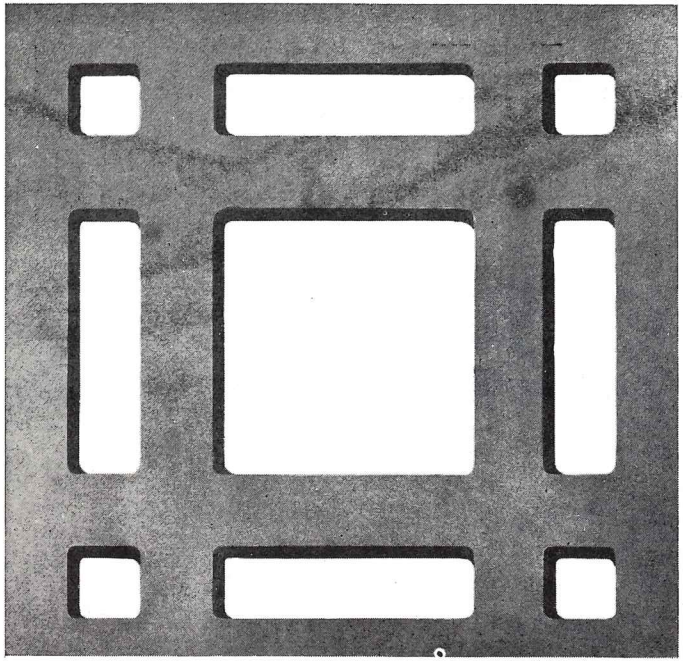
No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes
1	2"	18	40¼"	35	78½"	52	116¾"
2	4¼"	19	42½"	36	80¾"	53	119"
3	6½"	20	44¾"	37	83"	54	121¼"
4	8¾"	21	47"	38	85¼"	55	123½"
5	11"	22	49¼"	39	87½"	56	125¾"
6	13¼"	23	51½"	40	89¾"	57	128"
7	15½"	24	53¾"	41	92"	58	130¼"
8	17¾"	25	56"	42	94¼"	59	132½"
9	20"	26	58¼"	43	96½"	60	134¾"
10	22¼"	27	60½"	44	98¾"	61	137"
11	24½"	28	62¾"	45	101"	62	139¼"
12	26¾"	29	65"	46	103¼"	63	141½"
13	29"	30	67¼"	47	105½"	64	143¾"
14	31¼"	31	69½"	48	107¾"	65	146"
15	33½"	32	71¾"	49	110"	66	148¼"
16	35¾"	33	74"	50	112¼"	67	150½"
17	38"	34	76¼"	51	114½"		

Maximum Thickness

STEEL 3/16 inch - BRONZE 1/4 inch - ALUMINUM 1/4 inch

STAINLESS STEEL No. 10 USS - MONEL No. 10 USS

2⅞ inch GREEK GRILLE PATTERN . design K-4

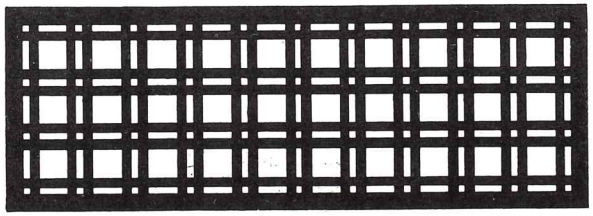


ACTUAL SIZE

design K-4

2-7/8 inch MESH - 3/8 inch FRETWORK

51% OPEN AREA



51% Open Area

Made To

48" Width - 120" Length

Larger in Sections

Paneled with Stiffeners

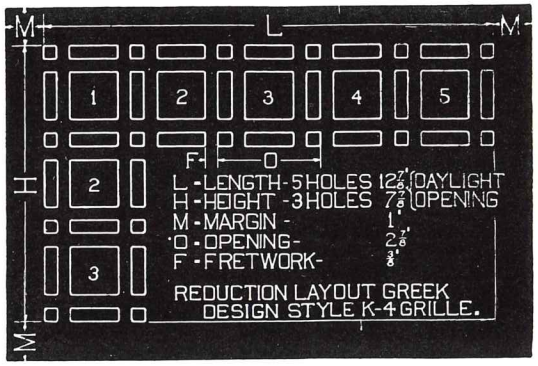


TABLE OF OPENING SIZES

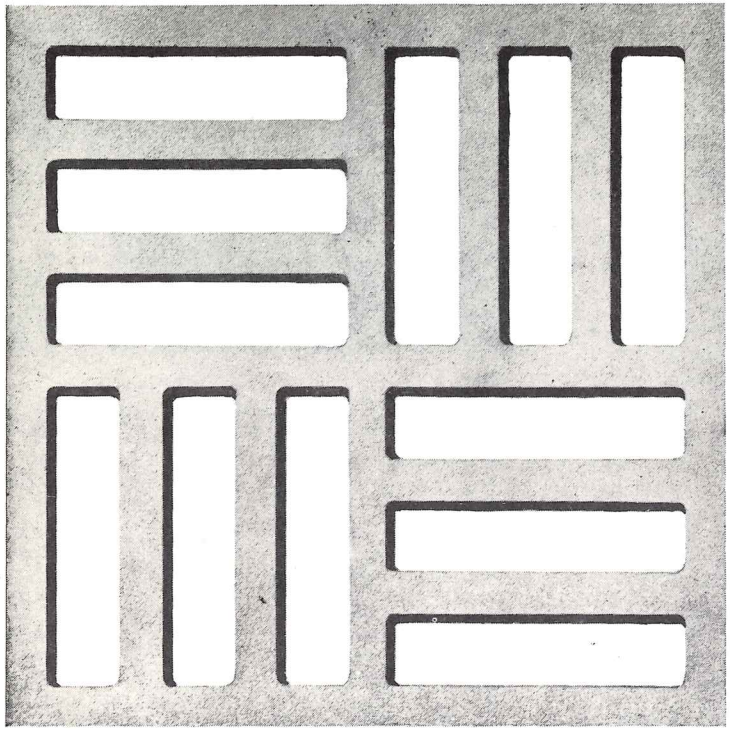
No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes
1	2⅞"	21	52⅞"	41	102⅞"
2	5⅜"	22	55⅜"	42	105⅜"
3	7⅞"	23	57⅞"	43	107⅞"
4	10⅜"	24	60⅜"	44	110⅜"
5	12⅞"	25	62⅞"	45	112⅞"
6	15⅜"	26	65⅜"	46	115⅜"
7	17⅞"	27	67⅞"	47	117⅞"
8	20⅜"	28	70⅜"	48	120⅜"
9	22⅞"	29	72⅞"	49	122⅞"
10	25⅜"	30	75⅜"	50	125⅜"
11	27⅞"	31	77⅞"	51	127⅞"
12	30⅜"	32	80⅜"	52	130⅜"
13	32⅞"	33	82⅞"	53	132⅞"
14	35⅜"	34	85⅜"	54	135⅜"
15	37⅞"	35	87⅞"	55	137⅞"
16	40⅜"	36	90⅜"	56	140⅜"
17	42⅞"	37	92⅞"	57	142⅞"
18	45⅜"	38	95⅜"	58	145⅜"
19	47⅞"	39	97⅞"	59	147⅞"
20	50⅜"	40	100⅜"	60	150⅜"

Maximum Thickness

STEEL 1/4 inch - BRONZE 1/4 inch - ALUMINUM 1/4 inch

STAINLESS STEEL No. 10 USS - MONEL No. 10 USS

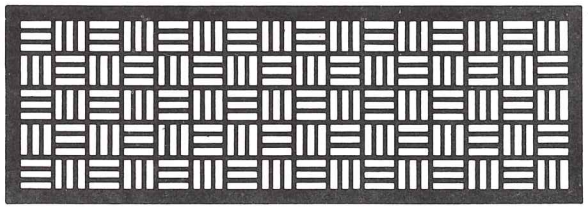
1½ inch BASKET WEAVE GRILLE PATTERN · design K-6



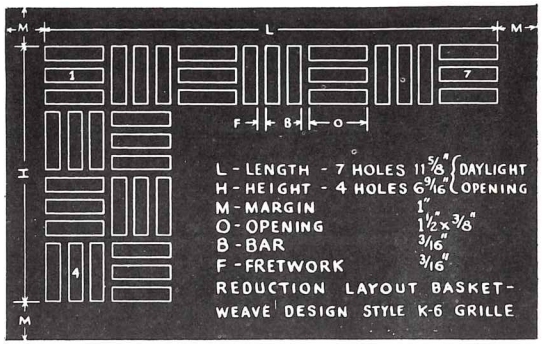
ACTUAL SIZE

design K-6

1-1/2 inch MESH - 3/16 inch FRETWORK
3/8 x 1-1/2 inch SLOT - 3/16 inch BAR
60% OPEN AREA



60% Open Area



Made To

48" Width - 120" Length

Larger in Sections

Paneled with Stiffeners

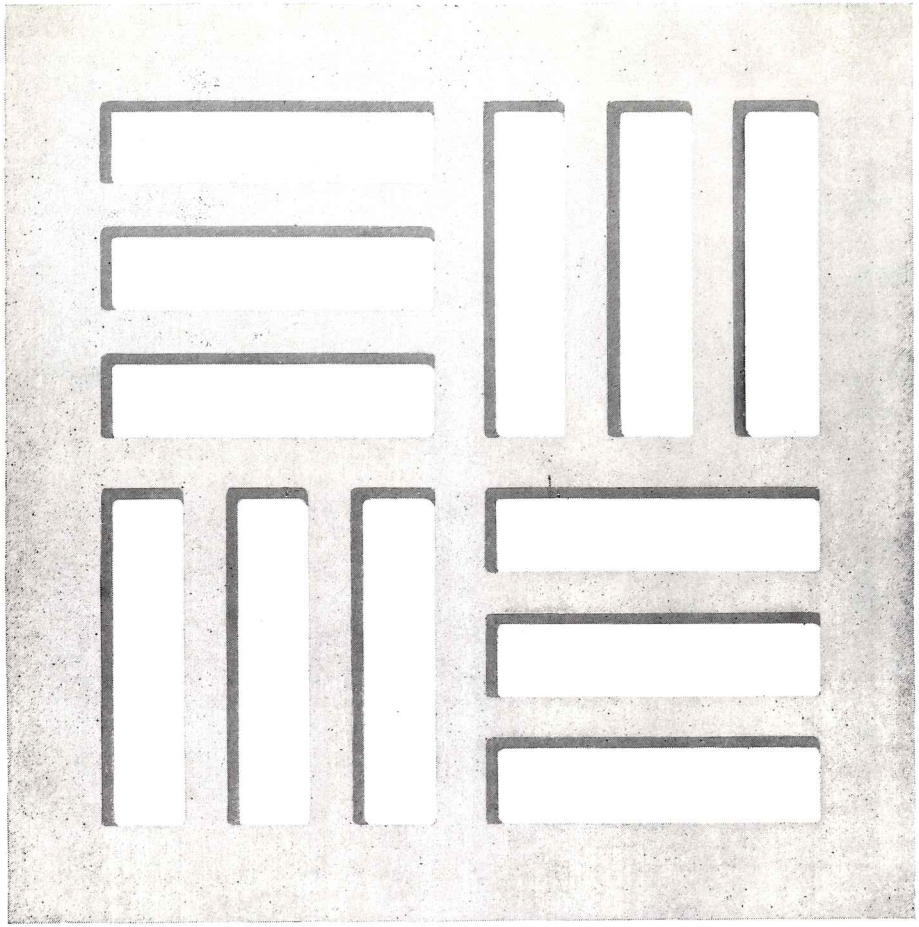
TABLE OF OPENING SIZES

No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes
1	1½"	20	33 9/16"	39	65 5/8"	58	97 11/16"
2	3 3/16"	21	35¼"	40	67 5/16"	59	99 3/8"
3	4 7/8"	22	36 15/16"	41	69"	60	101 1/16"
4	6 9/16"	23	38 5/8"	42	70 11/16"	61	102¾"
5	8¼"	24	40 5/16"	43	72 3/8"	62	104 7/16"
6	9 15/16"	25	42"	44	74 1/16"	63	106⅛"
7	11 5/8"	26	43 11/16"	45	75¾"	64	107 13/16"
8	13 5/16"	27	45 3/8"	46	77 7/16"	65	109½"
9	15"	28	47 1/16"	47	79⅛"	66	111 3/16"
10	16 11/16"	29	48¾"	48	80 13/16"	67	112 7/8"
11	18 3/8"	30	50 7/16"	49	82½"	68	114 9/16"
12	20 1/16"	31	52⅛"	50	84 3/16"	69	116¼"
13	21¾"	32	53 13/16"	51	85 7/8"	70	117 15/16"
14	23 7/16"	33	55½"	52	87 9/16"	71	119 5/8"
15	25⅛"	34	57 3/16"	53	89¼"	72	121 5/16"
16	26 13/16"	35	58 7/8"	54	90 15/16"	73	123"
17	28½"	36	60 9/16"	55	92 5/8"		
18	30 3/16"	37	62¼"	56	94 5/16"		
19	31 7/8"	38	63 15/16"	57	96"		

Maximum Thickness

STEEL No. 14 USS - BRONZE 1/8 inch - ALUMINUM 1/8 inch
MONEL No. 16 USS - STAINLESS STEEL No. 16 USS

1¾ inch BASKET WEAVE GRILLE PATTERN • design K-5



ACTUAL SIZE

design K-5

1-3/4 inch MESH - 7/32 inch FRETWORK

7/16 x 1-3/4 inch SLOT - 1/4 inch BAR

58% OPEN AREA

58% Open Area

Made To

48" Width - 120" Length

Larger in Sections

Paneled with Stiffeners

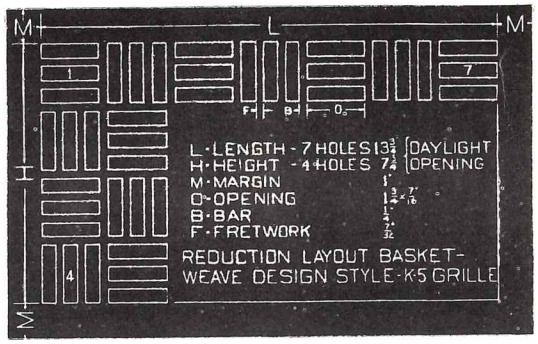
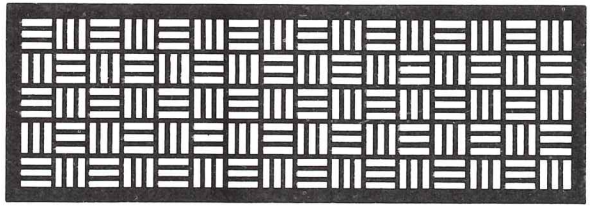


TABLE OF OPENING SIZES

No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes
1	1¾"	21	41¾"	41	81¾"
2	3¾"	22	43¾"	42	83¾"
3	5¾"	23	45¾"	43	85¾"
4	7¾"	24	47¾"	44	87¾"
5	9¾"	25	49¾"	45	89¾"
6	11¾"	26	51¾"	46	91¾"
7	13¾"	27	53¾"	47	93¾"
8	15¾"	28	55¾"	48	95¾"
9	17¾"	29	57¾"	49	97¾"
10	19¾"	30	59¾"	50	99¾"
11	21¾"	31	61¾"	51	101¾"
12	23¾"	32	63¾"	52	103¾"
13	25¾"	33	65¾"	53	105¾"
14	27¾"	34	67¾"	54	107¾"
15	29¾"	35	69¾"	55	109¾"
16	31¾"	36	71¾"	56	111¾"
17	33¾"	37	73¾"	57	113¾"
18	35¾"	38	75¾"	58	115¾"
19	37¾"	39	77¾"	59	117¾"
20	39¾"	40	79¾"	60	119¾"



Maximum Thickness

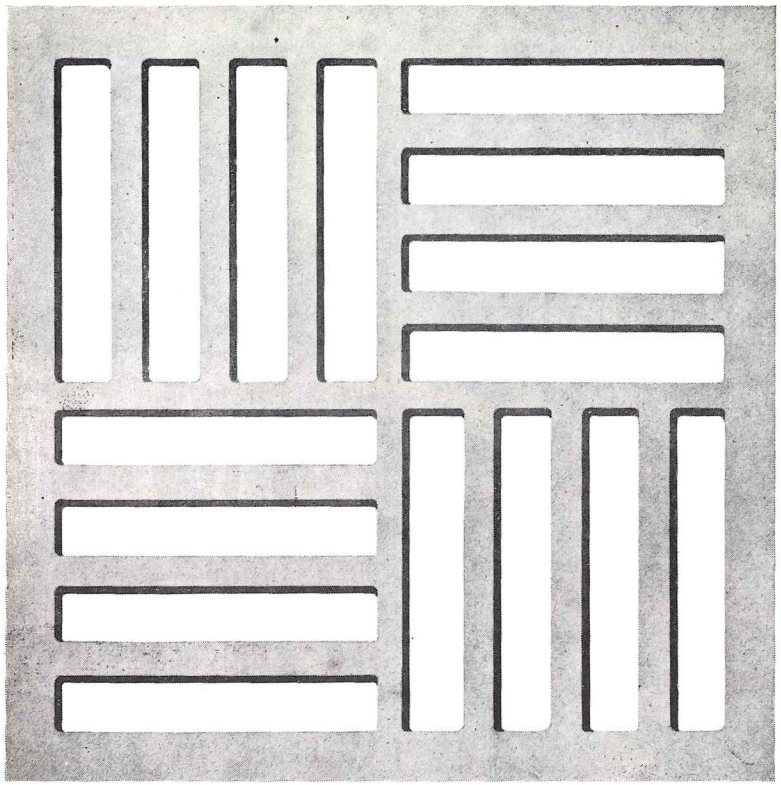
STEEL 3/16 inch - BRONZE 3/16 inch

ALUMINUM 3/16 inch

MONEL No. 10 USS

STAINLESS STEEL No. 10 USS

2 1/16 inch BASKET WEAVE GRILLE PATTERN · design K-7

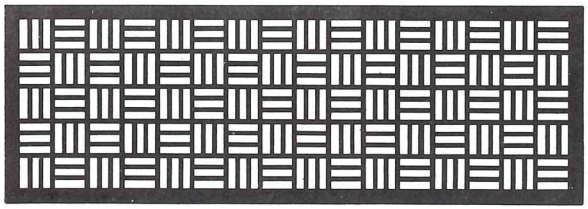


NOT TO SIZE

design K-7

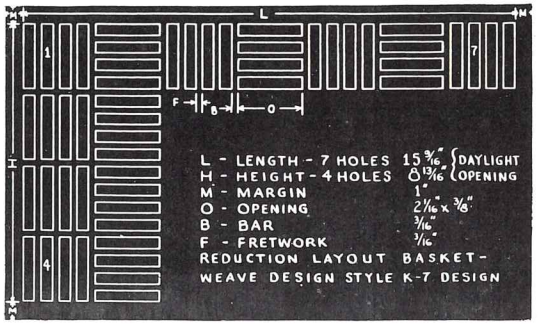
2-1/16 inch MESH - 3/16 inch FRETWORK

3/8 x 2-1/6 inch SLOT - 3/16 inch BAR



61%
OPEN
AREA

61% Open Area


L - LENGTH - 7 HOLES 15 3/16" DAYLIGHT
H - HEIGHT - 4 HOLES 8 13/16" OPENING
M - MARGIN 1"
O - OPENING 2 1/16" x 3/8"
B - BAR 3/16"
F - FRETWORK 3/16"
REDUCTION LAYOUT BASKET-WEAVE DESIGN STYLE K-7 DESIGN

Made To

48" Width - 120" Length

Larger in Sections

Paneled with Stiffeners

TABLE OF OPENING SIZES

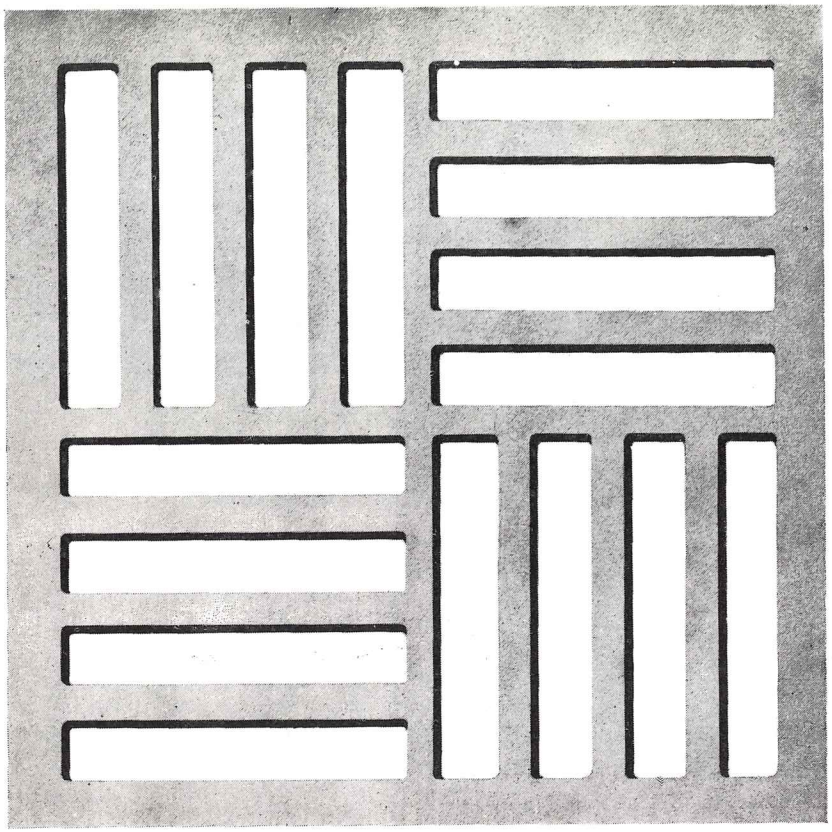
No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes
1	2 1/16"	19	42 9/16"	37	83 1/16"
2	4 5/16"	20	44 13/16"	38	85 5/16"
3	6 9/16"	21	47 1/16"	39	87 9/16"
4	8 13/16"	22	49 5/16"	40	89 13/16"
5	11 1/16"	23	51 9/16"	41	92 1/16"
6	13 5/16"	24	53 13/16"	42	94 5/16"
7	15 9/16"	25	56 1/16"	43	96 9/16"
8	17 13/16"	26	58 5/16"	44	98 13/16"
9	20 1/16"	27	60 9/16"	45	101 1/16"
10	22 5/16"	28	62 13/16"	46	103 5/16"
11	24 9/16"	29	65 1/16"	47	105 9/16"
12	26 13/16"	30	67 5/16"	48	107 13/16"
13	29 1/16"	31	69 9/16"	49	110 1/16"
14	31 5/16"	32	71 13/16"	50	112 5/16"
15	33 9/16"	33	74 1/16"	51	114 9/16"
16	35 13/16"	34	76 5/16"	52	116 13/16"
17	38 1/16"	35	78 9/16"	53	119 1/16"
18	40 5/16"	36	80 13/16"	54	121 5/16"

Maximum Thickness

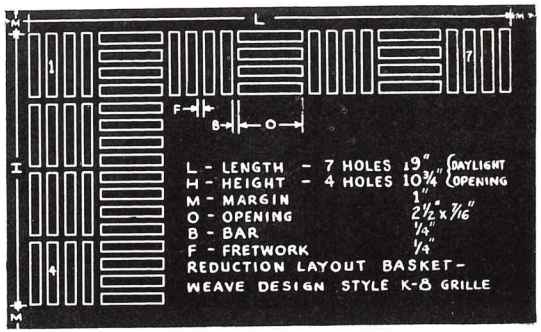
STEEL No. 14 USS - BRONZE 1/8 inch - ALUMINUM 1/8 inch

STAINLESS STEEL No. 16 USS - MONEL No. 16 USS

2½ inch BASKET WEAVE GRILLE PATTERN . design K-8



NOT TO SIZE



58% Open Area

Made To

48'' Width - 120'' Length

Larger in Sections

Paneled with Stiffeners

TABLE OF OPENING SIZES

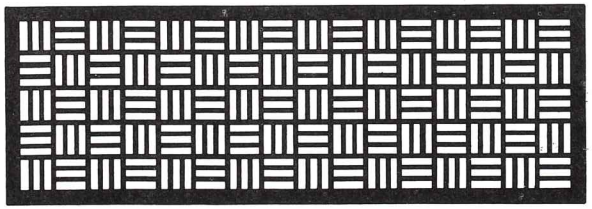
No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes
1	2½"	16	43¾"	31	85"
2	5¼"	17	46½"	32	87¾"
3	8"	18	49¼"	33	90½"
4	10¾"	19	52"	34	93¼"
5	13½"	20	54¾"	35	96"
6	16¼"	21	57½"	36	98¾"
7	19"	22	60¼"	37	101½"
8	21¾"	23	63"	38	104¼"
9	24½"	24	65¾"	39	107"
10	27¼"	25	68½"	40	109¾"
11	30"	26	71¼"	41	112½"
12	32¾"	27	74"	42	115¼"
13	35½"	28	76¾"	43	118"
14	38¼"	29	79½"	44	120¾"
15	41"	30	82¼"		

design K-8

2 1/2 inch MESH - 1/4 inch FRETWORK

7/16 x 2-1/2 inch SLOT - 1/4 inch BAR

58% OPEN AREA



Maximum Thickness

STEEL No. 14 USS - BRONZE 1/8 inch

ALUMINUM 1/8 inch

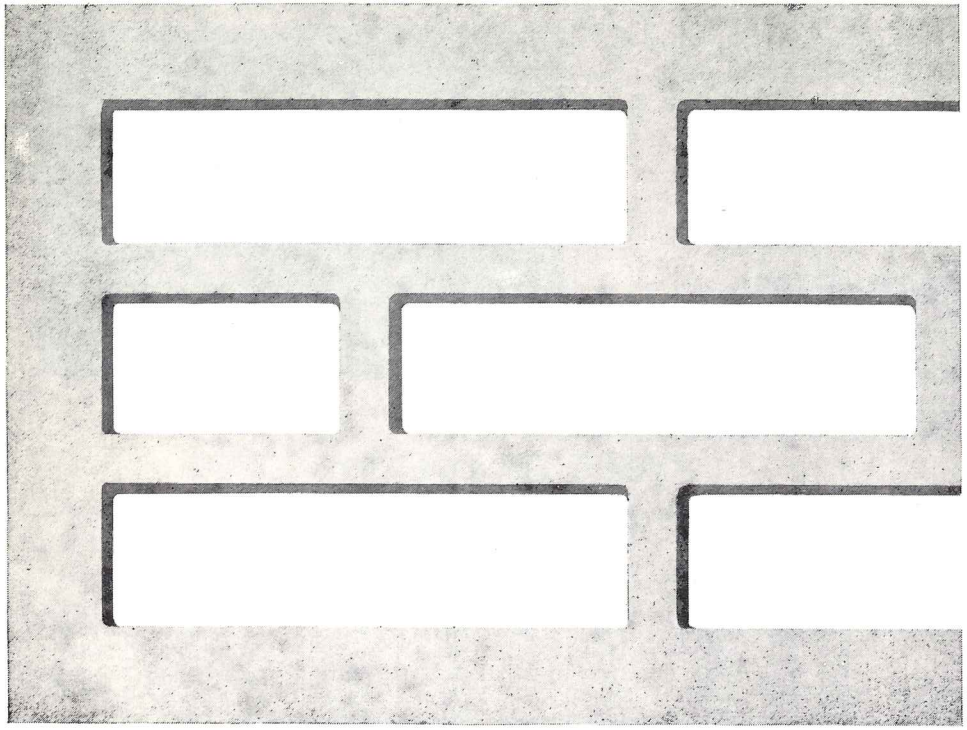
MONEL No. 16 USS

STAINLESS STEEL No. 16 USS

DIAMOND MANUFACTURING COMPANY

WYOMING - PENNSYLVANIA

3/4 x 2 3/4 inch BRICK GRILLE PATTERN · design K-9



ACTUAL SIZE

design K-9

3/4 x 2-3/4 inch SLOT - 1/4 inch FRETWORK

75% OPEN AREA

75% Open Area

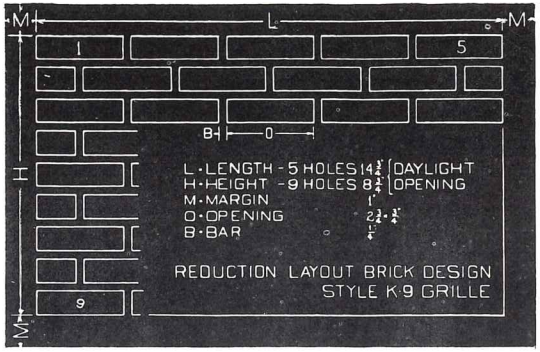
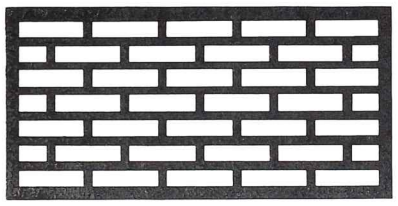


TABLE OF OPENING SIZES

No. of Holes	Opening Sizes		No. of Holes	Opening Sizes	
	Length	Height		Length	Height
1	2 3/4"	3/4"	18	53 3/4"	17 3/4"
2	5 3/4"	1 3/4"	19	56 3/4"	18 3/4"
3	8 3/4"	2 3/4"	20	59 3/4"	19 3/4"
4	11 3/4"	3 3/4"	21	62 3/4"	20 3/4"
5	14 3/4"	4 3/4"	22	65 3/4"	21 3/4"
6	17 3/4"	5 3/4"	23	68 3/4"	22 3/4"
7	20 3/4"	6 3/4"	24	71 3/4"	23 3/4"
8	23 3/4"	7 3/4"	25	74 3/4"	24 3/4"
9	26 3/4"	8 3/4"	26	77 3/4"	25 3/4"
10	29 3/4"	9 3/4"	27	80 3/4"	26 3/4"
11	32 3/4"	10 3/4"	28	83 3/4"	27 3/4"
12	35 3/4"	11 3/4"	29	86 3/4"	28 3/4"
13	38 3/4"	12 3/4"	30	89 3/4"	29 3/4"
14	41 3/4"	13 3/4"	31	92 3/4"	30 3/4"
15	44 3/4"	14 3/4"	32	95 3/4"	31 3/4"
16	47 3/4"	15 3/4"	33	98 3/4"	32 3/4"
17	50 3/4"	16 3/4"	34	101 3/4"	33 3/4"



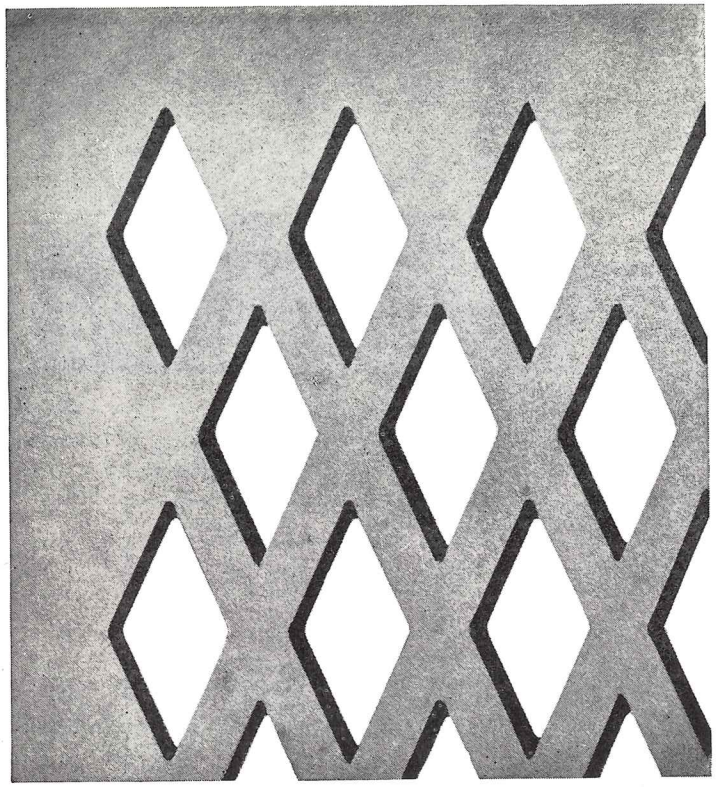
Made To
48" Width - 120" Length
Larger in Sections
Paneled with Stiffeners

Maximum Thickness

STEEL 1/4 inch - BRONZE 1/4 inch - ALUMINUM 1/4 inch

STAINLESS STEEL No. 10 USS - MONEL No. 10 USS

5/8 x 1 3/8 inch DIAMOND GRILLE PATTERN · design M-1

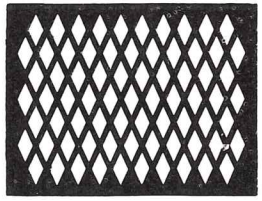


ACTUAL SIZE

design M-1

5/8 x 1-3/8 inch MESH - 1/4 inch FRETWORK

54% OPEN AREA



Made To

48" Width - 120" Length

Larger in Sections

Paneled with Stiffeners

54%

Open Area

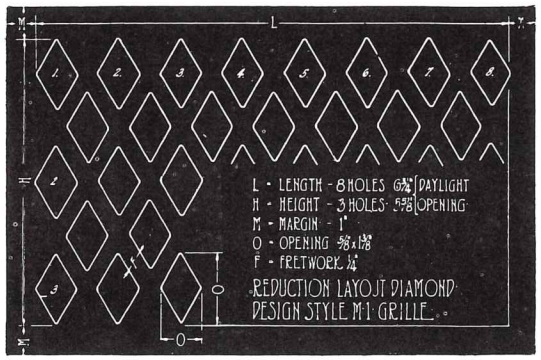

L - LENGTH - 8 HOLES 6 3/4" DAYLIGHT
H - HEIGHT - 3 HOLES 5 5/8" OPENING
M - MARGIN - 1"
O - OPENING 5/8 x 1 3/8
F - FRETWORK 1/4"
REDUCTION LAYOUT DIAMOND
DESIGN STYLE M-1 GRILLE

TABLE OF OPENING SIZES

No. of Holes	Opening Sizes		No. of Holes	Opening Sizes		No. of Holes	Opening Sizes	
	Length	Height		Length	Height		Length	Height
1	5/8"	1 3/8"	21	18 1/8"	43 7/8"	41	35 5/8"	86 3/8"
2	1 1/2"	3 1/2"	22	19"	46"	42	36 1/2"	88 1/2"
3	2 3/8"	5 5/8"	23	19 7/8"	48 1/8"	43	37 3/8"	90 5/8"
4	3 1/4"	7 3/4"	24	20 3/4"	50 1/4"	44	38 1/4"	92 3/4"
5	4 1/8"	9 7/8"	25	21 5/8"	52 3/8"	45	39 1/8"	94 7/8"
6	5"	12"	26	22 1/2"	54 1/2"	46	40"	97"
7	5 7/8"	14 1/8"	27	23 3/8"	56 5/8"	47	40 7/8"	99 1/8"
8	6 3/4"	16 1/4"	28	24 1/4"	58 3/4"	48	41 3/4"	101 1/4"
9	7 5/8"	18 3/8"	29	25 1/8"	60 7/8"	49	42 5/8"	103 3/8"
10	8 1/2"	20 1/2"	30	26"	63"	50	43 1/2"	105 1/2"
11	9 3/8"	22 5/8"	31	26 7/8"	65 1/8"	51	44 3/8"	107 5/8"
12	10 1/4"	24 3/4"	32	27 3/4"	67 1/4"	52	45 1/4"	109 3/4"
13	11 1/8"	26 7/8"	33	28 5/8"	69 3/8"	53	46 1/8"	111 7/8"
14	12"	29"	34	29 1/2"	71 1/2"	54	47"	114"
15	12 7/8"	31 1/8"	35	30 3/8"	73 5/8"	55	47 7/8"	116 1/8"
16	13 3/4"	33 1/4"	36	31 1/4"	75 3/4"	56	48 3/4"	118 1/4"
17	14 5/8"	35 3/8"	37	32 1/8"	77 7/8"	57	49 5/8"	120 3/8"
18	15 1/2"	37 1/2"	38	33"	80"	58	50 1/2"	122 1/2"
19	16 3/8"	39 5/8"	39	33 7/8"	82 1/8"	59	51 3/8"	124 5/8"
20	17 1/4"	41 3/4"	40	34 3/4"	84 1/4"	60	52 1/4"	126 3/4"

Maximum Thickness

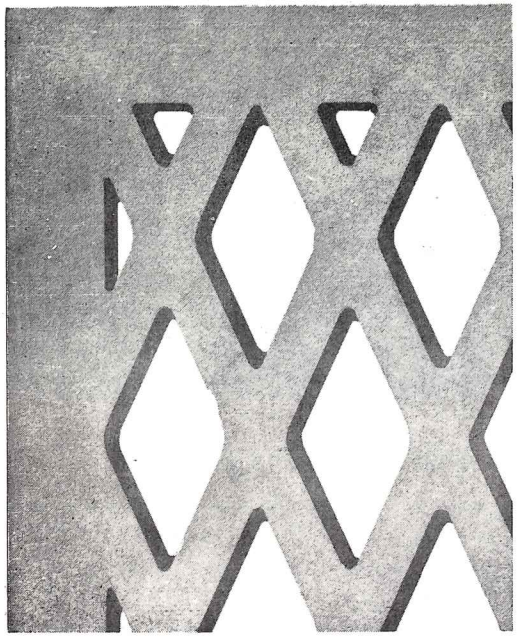
STEEL No. 10 USS - BRONZE No. 8 B & S - ALUMINUM No. 8 B & S

MONEL No. 10 USS - STAINLESS STEEL No. 12 USS

DIAMOND MANUFACTURING COMPANY

WYOMING - PENNSYLVANIA

5/8 x 1 3/8 inch DIAMOND GRILLE PATTERN (with half holes) · design M-2



ACTUAL SIZE

design M-2

5/8 x 1-3/8 inch MESH

1/4 inch FRETWORK

55% OPEN AREA

55% Open Area

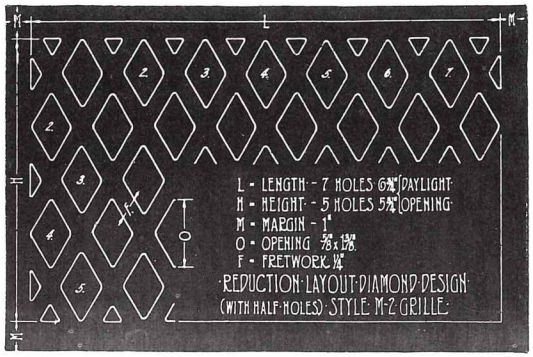
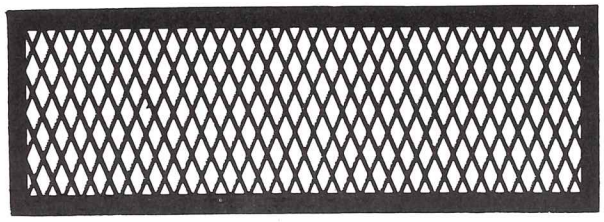

L - LENGTH - 7 HOLES 6⅞" DAYLIGHT
M - HEIGHT - 5 HOLES 5⅞" OPENING
M - MARGIN - 1"
O - OPENING ⅝ x 1⅜
F - FRETWORK ¼"
REDUCTION LAYOUT DIAMOND DESIGN
(WITH HALF HOLES) STYLE M-2 GRILLE

TABLE OF OPENING SIZES

No. of Holes	Opening Sizes		No. of Holes	Opening Sizes		No. of Holes	Opening Sizes		No. of Holes	Opening Sizes	
	Length	Height		Length	Height		Length	Height		Length	Height
1	1½"	1½"	19	17¼"	20⅝"	37	33"	39¾"	55	48¾"	58⅞"
2	2⅜"		20	18⅛"		38	33⅞"		56	49⅝"	
3	3¼"	3⅝"	21	19"	22¾"	39	34¾"	41⅞"	57	50½"	61"
4	4⅛"		22	19⅞"		40	35⅝"		58	51⅜"	
5	5"	5¾"	23	20¾"	24⅞"	41	36½"	44"	59	52¼"	63⅛"
6	5⅞"		24	21⅝"		42	37⅜"		60	53⅛"	
7	6¾"	7⅞"	25	22½"	27"	43	38¼"	46⅛"	61	54"	65¼"
8	7⅝"		26	23⅜"		44	39⅛"		62	54⅞"	
9	8½"	10"	27	24¼"	29⅛"	45	40"	48¼"	63	55¾"	67⅜"
10	9⅜"		28	25⅛"		46	40⅞"		64	56⅝"	
11	10¼"	12⅛"	29	26"	31¼"	47	41¾"	50⅜"	65	57½"	69½"
12	11⅛"		30	26⅞"		48	42⅝"		66	58⅜"	
13	12"	14¼"	31	27¾"	33⅜"	49	43½"	52½"	67	59¼"	71⅝"
14	12⅞"		32	28⅝"		50	44⅜"		68	60⅛"	
15	13¾"	16⅜"	33	29½"	35½"	51	45¼"	54⅝"	69	61"	73¾"
16	14⅝"		34	30⅜"		52	46⅛"		70	61⅞"	
17	15½"	18½"	35	31¼"	37⅝"	53	47"	56¾"	71	62¾"	75⅞"
18	16⅜"		36	32⅛"		54	47⅞"		72	63⅝"	



Made To

48" Width - 120" Length

Larger in Sections

Paneled with Stiffeners

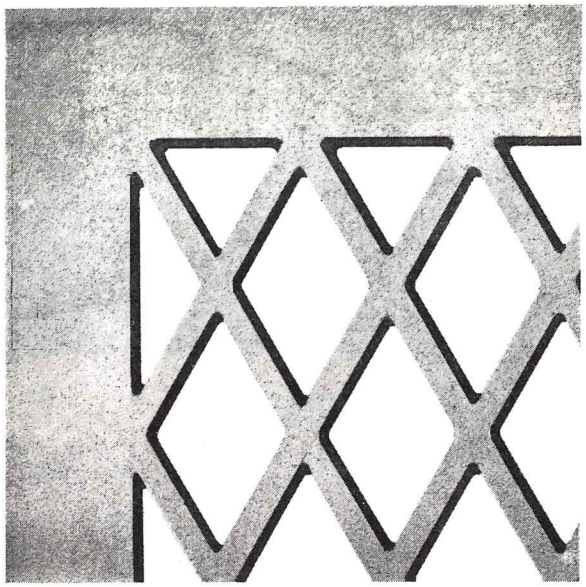
Maximum Thickness

STEEL No. 10 USS - BRONZE No. 8 B & S

ALUMINUM No. 8 B & S - MONEL No. 10 USS

STAINLESS STEEL No. 10 USS

3/4 x 1 1/4 inch DIAMOND GRILLE PATTERN (with half holes) • design M-4

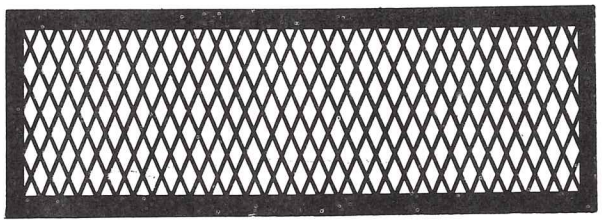


ACTUAL SIZE

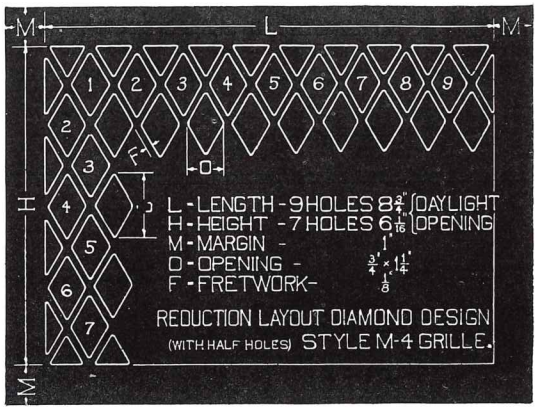
design M-4

3/4 x 1-1/4 inch MESH - 1/8 inch FRETWORK

70% OPEN AREA



70%
Open Area



Made To
36" Width - 60" Length
Larger in Sections
Paneled with Stiffeners

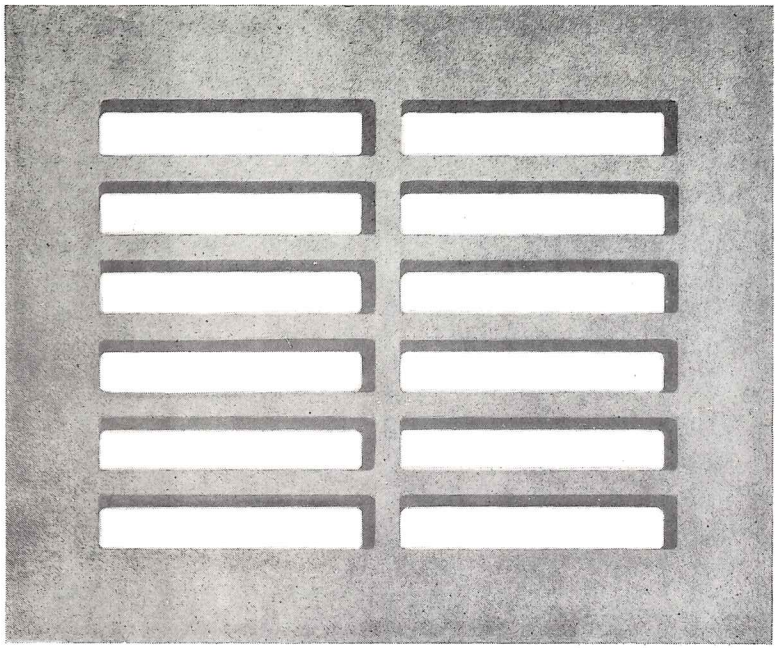
TABLE OF OPENING SIZES

No. of Holes	Opening Sizes		No. of Holes	Opening Sizes		No. of Units	Opening Sizes	
	Length	Height		Length	Height		Length	Height
1	1 3/4"	1 9/16"	24	21 7/8"		46	41 1/8"	
2	2 5/8"		25	22 3/4"	19 9/16"	47	42"	36 1/16"
3	3 1/2"	3 1/16"	26	23 5/8"		48	42 7/8"	
4	4 3/8"		27	24 1/2"	21 1/16"	49	43 3/4"	37 9/16"
5	5 1/4"	4 9/16"	28	25 3/8"		50	44 5/8"	
6	6 1/8"		29	26 1/4"	22 9/16"	51	45 1/2"	39 1/16"
7	7"	6 1/16"	30	27 1/8"		52	46 3/8"	
8	7 7/8"		31	28"	24 1/16"	53	47 1/4"	40 9/16"
9	8 3/4"	7 9/16"	32	28 7/8"		54	48 1/8"	
10	9 5/8"		33	29 3/4"	25 9/16"	55	49"	42 1/16"
11	10 1/2"	9 1/16"	34	30 5/8"		56	49 7/8"	
12	11 3/8"		35	31 1/2"	27 1/16"	57	50 3/4"	43 9/16"
13	12 1/4"	10 9/16"	36	32 3/8"		58	51 5/8"	
14	13 1/8"		37	33 1/4"	28 9/16"	59	52 1/2"	45 1/16"
15	14"	12 1/16"	38	34 1/8"		60	53 3/8"	
16	14 7/8"		39	35"	30 1/16"	61	54 1/4"	46 9/16"
17	15 3/4"	13 9/16"	40	35 7/8"		62	55 1/8"	
18	16 5/8"		41	36 3/4"	31 9/16"	63	56"	48 1/16"
19	17 1/2"	15 1/16"	42	37 5/8"		64	56 7/8"	
20	18 3/8"		43	38 1/2"	33 1/16"	65	57 3/4"	49 9/16"
21	19 1/4"	16 9/16"	44	39 3/8"		66	58 5/8"	
22	20 1/8"		45	40 1/4"	34 9/16"	67	59 1/2"	51 1/16"
23	21"	18 1/16"						

Maximum Thickness

STEEL No. 12 USS - BRONZE No. 8 B & S - ALUMINUM No. 8 B & S
STAINLESS STEEL No. 14 USS - MONEL No. 14 USS

9/32 x 1 7/16 inch HORIZONTAL SLOT GRILLE PATTERN · design S-20



ACTUAL SIZE

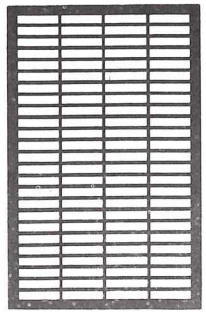
design S-20

9/32 x 1-7/16 inch MESH — 1/8 inch Bar

65% OPEN AREA

65% Open Area

Made To
36" Width — 120" Length
Larger in Sections
Paneled with Stiffeners



For Grilles Exceeding 60 inches Length or Wider than 16 inches, Minimum margins of 1 inch are recommended.

Table of Opening Sizes on reverse side of sheet.

Maximum Thickness

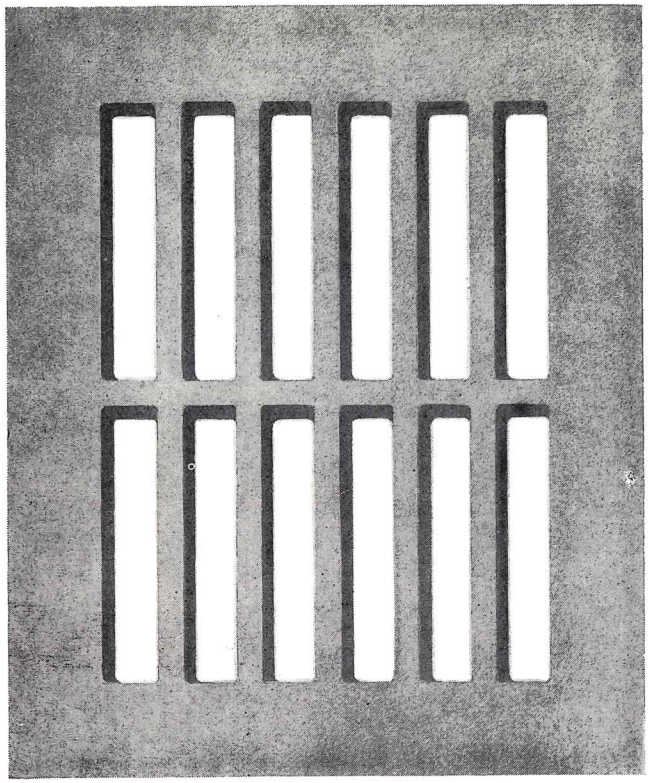
STEEL No. 12 USS — BRONZE 1/8 inch — ALUMINUM 1/8 inch
STAINLESS STEEL No. 14 USS — MONEL No. 14 USS

TABLE OF OPENING SIZES - DESIGN S-20

(Design shown on reverse)

No. of Holes	Opening Sizes		No. of Holes	Opening Sizes		No. of Holes	Opening Sizes		No. of Holes	Opening Sizes	
	Height	Length		Height	Length		Height	Length		Height	Length
1	9/32"	1 7/16"	26	10 7/16"	40 1/2"	51	20 19/32"	79 9/16"	76	30 3/4"	118 5/8"
2	11/16"	3"	27	10 27/32"	42 1/16"	52	21"	81 1/8"	77	31 5/32"	120 3/16"
3	1 3/32"	4 9/16"	28	11 1/4"	43 5/8"	53	21 13/32"	82 11/16"	78	31 9/16"	121 3/4"
4	1 1/2"	6 1/8"	29	11 21/32"	45 3/16"	54	21 13/16"	84 1/4"	79	31 31/32"	123 5/16"
5	1 29/32"	7 11/16"	30	12 1/16"	46 3/4"	55	22 7/32"	85 13/16"	80	32 3/8"	124 7/8"
6	2 5/16"	9 1/4"	31	12 15/32"	48 5/16"	56	22 5/8"	87 3/8"	81	32 25/32"	126 7/16"
7	2 23/32"	10 13/16"	32	12 7/8"	49 7/8"	57	23 1/32"	88 15/16"	82	33 3/16"	128"
8	3 1/8"	12 3/8"	33	13 9/32"	51 7/16"	58	23 7/16"	90 1/2"	83	33 19/32"	129 9/16"
9	3 17/32"	13 15/16"	34	13 11/16"	53"	59	23 27/32"	92 1/16"	84	34"	131 1/8"
10	3 15/16"	15 1/2"	35	14 3/32"	54 9/16"	60	24 1/4"	93 5/8"	85	34 13/32"	132 11/16"
11	4 11/32"	17 1/16"	36	14 1/2"	56 1/8"	61	24 21/32"	95 3/16"	86	34 13/16"	134 1/4"
12	4 3/4"	18 5/8"	37	14 29/32"	57 11/16"	62	25 1/16"	96 3/4"	87	35 7/32"	135 13/16"
13	5 5/32"	20 3/16"	38	15 5/16"	59 1/4"	63	25 15/32"	98 5/16"	88	35 5/8"	137 3/8"
14	5 9/16"	21 3/4"	39	15 23/32"	60 13/16"	64	25 7/8"	99 7/8"	89	36 1/32"	138 15/16"
15	5 31/32"	23 5/16"	40	16 1/8"	62 3/8"	65	26 9/32"	101 7/16"	90	36 7/16"	140 1/2"
16	6 3/8"	24 7/8"	41	16 17/32"	63 15/16"	66	26 11/16"	103"	91	36 27/32"	142 1/16"
17	6 25/32"	26 7/16"	42	16 15/16"	65 1/2"	67	27 3/32"	104 9/16"	92	37 1/4"	143 5/8"
18	7 3/16"	28"	43	17 11/32"	67 1/16"	68	27 1/2"	106 1/8"	93	37 21/32"	145 3/16"
19	7 19/32"	29 9/16"	44	17 3/4"	68 5/8"	69	27 29/32"	107 11/16"	94	38 1/16"	146 3/4"
20	8"	31 1/8"	45	18 5/32"	70 3/16"	70	28 5/16"	109 1/4"	95	38 13/32"	148 5/16"
21	8 13/32"	32 11/16"	46	18 9/16"	71 3/4"	71	28 23/32"	110 13/16"	96	38 7/8"	149 7/8"
22	8 13/16"	34 1/4"	47	18 31/32"	73 5/16"	72	29 1/8"	112 3/8"	97	39 9/32"	151 7/16"
23	9 7/32"	35 13/16"	48	19 3/8"	74 7/8"	73	29 17/32"	113 15/16"	98	39 11/16"	153"
24	9 5/8"	37 3/8"	49	19 25/32"	76 7/16"	74	29 15/16"	115 1/2"	99	40 3/32"	154 9/16"
25	10 1/32"	38 15/16"	50	20 3/16"	78"	75	30 11/32"	117 1/16"	100	40 1/2"	156 1/8"

1 7/16 x 9/32 inch VERTICAL SLOT GRILLE PATTERN · design S-9

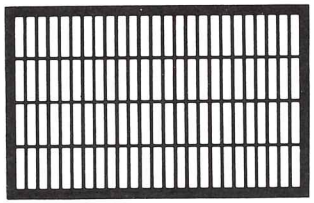


ACTUAL SIZE

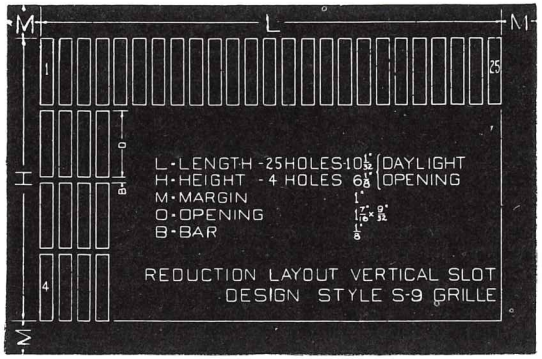
design S-9

1-7/16 x 9/32 inch MESH - 1/8 inch BAR

65% OPEN AREA



65% Open Area



Made To

36" Width - 120" Length

Larger in Sections

Paneled with Stiffeners

TABLE OF OPENING SIZES

No. of Holes	Opening Sizes		No. of Holes	Opening Sizes	
	Length	Height		Length	Height
1	9/32"	1 7/16"	17	6 25/32"	26 7/16"
2	1 11/16"	3"	18	7 3/16"	28"
3	1 3/32"	4 9/16"	19	7 19/32"	29 9/16"
4	1 1/2"	6 1/8"	20	8"	31 1/8"
5	1 29/32"	7 11/16"	21	8 13/32"	32 11/16"
6	2 5/16"	9 1/4"	22	8 13/16"	34 1/4"
7	2 23/32"	10 13/16"	23	9 7/32"	35 13/16"
8	3 1/8"	12 3/8"	24	9 5/8"	37 3/8"
9	3 17/32"	13 15/16"	25	10 1/32"	38 15/16"
10	3 15/16"	15 1/2"	26	10 7/16"	40 1/2"
11	4 11/32"	17 1/16"	27	10 27/32"	42 1/16"
12	4 3/4"	18 5/8"	28	11 1/4"	43 5/8"
13	5 5/32"	20 3/16"	29	11 21/32"	45 3/16"
14	5 9/16"	21 3/4"	30	12 1/16"	46 3/4"
15	5 31/32"	23 5/16"	31	12 15/32"	48 5/16"
16	6 3/8"	24 7/8"	32	12 7/8"	49 7/8"

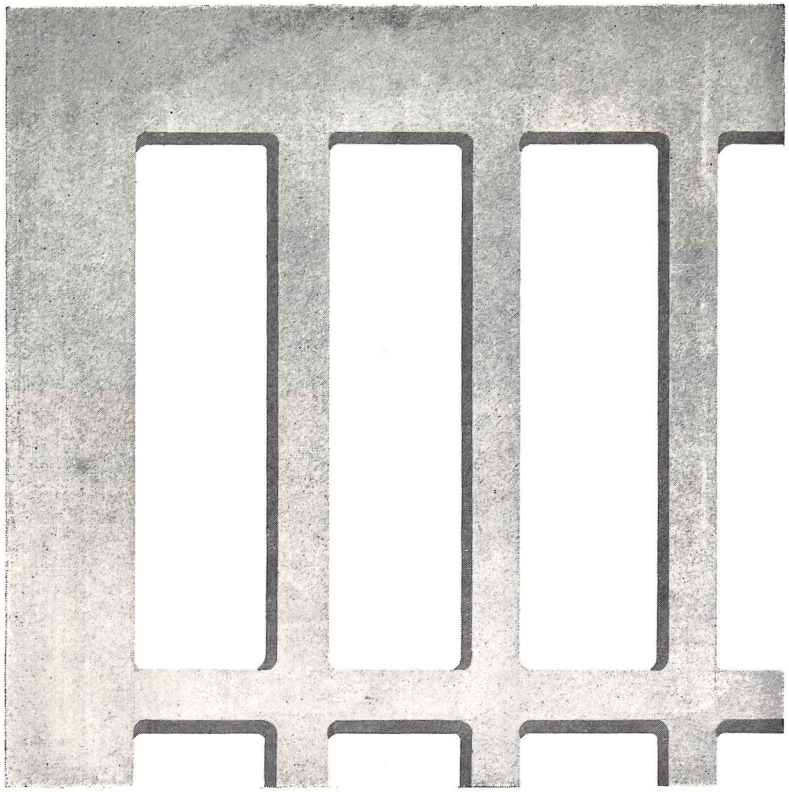
1" Minimum margins are recommended for Grilles wider than 24" or longer than 60"

Maximum Thickness

STEEL No. 12 USS - BRONZE 1/8 inch - ALUMINUM 1/8 inch

STAINLESS STEEL No. 14 USS - MONEL No. 12 USS

¾ x 2¾ inch HOSPITAL SLOT GRILLE PATTERN · design S-1



ACTUAL SIZE

design S-1

3/4 x 2-3/4 inch MESH - 1/4 inch FRETWORK

75% OPEN AREA

75%
Open Area

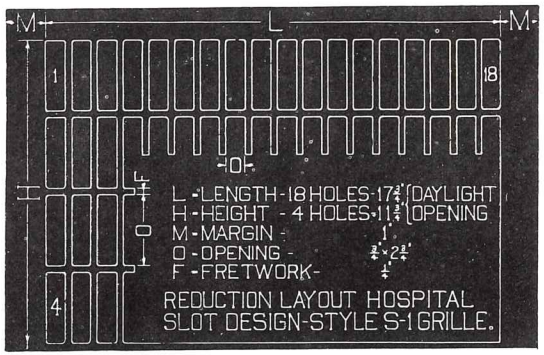
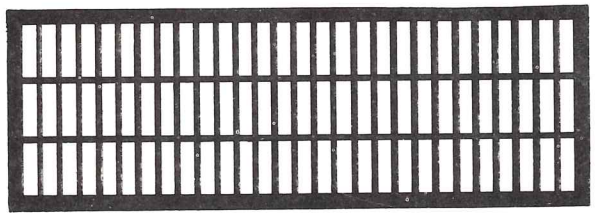


TABLE OF OPENING SIZES

No. of Holes	Opening Sizes		No. of Holes	Opening Sizes		No. of Holes	Opening Sizes	
	Length	Height		Length	Height		Length	Height
1	¾"	2¾"	18	17¾"	53¾"	35	34¾"	104¾"
2	1¾"	5¾"	19	18¾"	56¾"	36	35¾"	107¾"
3	2¾"	8¾"	20	19¾"	59¾"	37	36¾"	110¾"
4	3¾"	11¾"	21	20¾"	62¾"	38	37¾"	113¾"
5	4¾"	14¾"	22	21¾"	65¾"	39	38¾"	116¾"
6	5¾"	17¾"	23	22¾"	68¾"	40	39¾"	119¾"
7	6¾"	20¾"	24	23¾"	71¾"	41	40¾"	122¾"
8	7¾"	23¾"	25	24¾"	74¾"	42	41¾"	125¾"
9	8¾"	26¾"	26	25¾"	77¾"	43	42¾"	128¾"
10	9¾"	29¾"	27	26¾"	80¾"	44	43¾"	131¾"
11	10¾"	32¾"	28	27¾"	83¾"	45	44¾"	134¾"
12	11¾"	35¾"	29	28¾"	86¾"	46	45¾"	137¾"
13	12¾"	38¾"	30	29¾"	89¾"	47	46¾"	140¾"
14	13¾"	41¾"	31	30¾"	92¾"	48	47¾"	143¾"
15	14¾"	44¾"	32	31¾"	95¾"	49	48¾"	146¾"
16	15¾"	47¾"	33	32¾"	98¾"	50	49¾"	149¾"
17	16¾"	50¾"	34	33¾"	101¾"			



Made To

48" Width - 120" Length

Larger in Sections

Paneled with Stiffeners

Maximum Thickness

STEEL No. 10 USS - BRONZE 1/4 inch

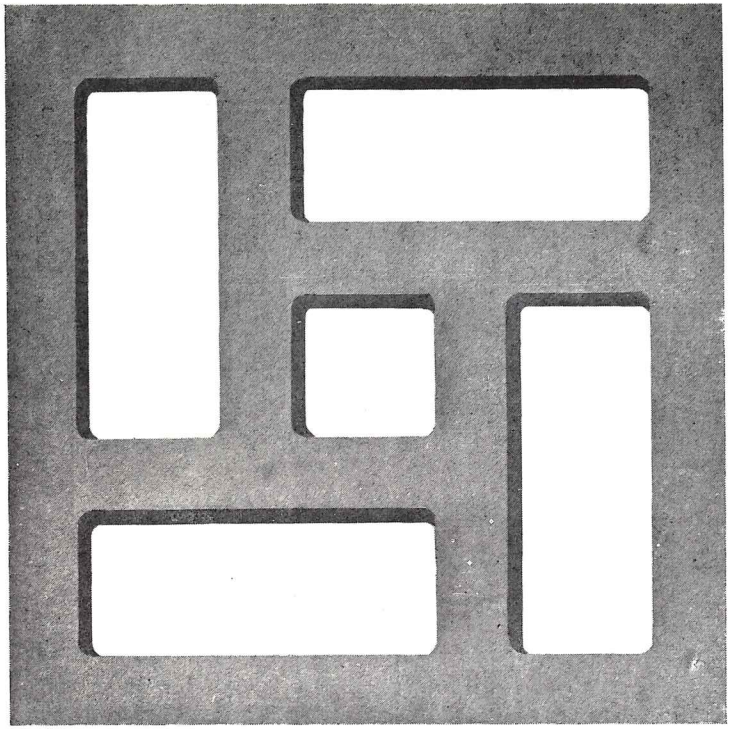
ALUMINUM 1/4 inch - MONEL No. 12 USS

STAINLESS STEEL No. 12 USS

DIAMOND MANUFACTURING COMPANY

WYOMING - PENNSYLVANIA

3 inch MOSAIC GRILLE PATTERN · design S-2

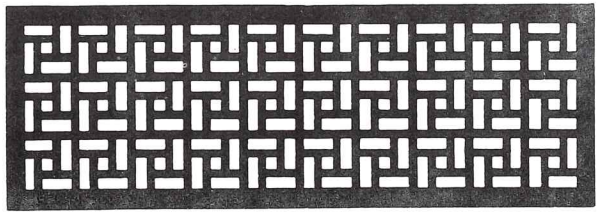


ACTUAL SIZE

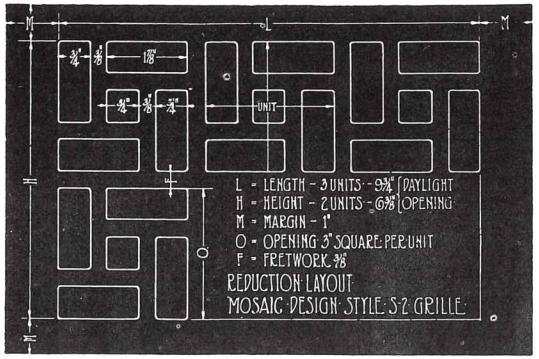
design S-2

3 inch MESH - 3/8 inch FRETWORK

67% OPEN AREA



67%
Open Area


L = LENGTH - 3 UNITS - 9¾" DAYLIGHT
H = HEIGHT - 2 UNITS - 6⅜" OPENING
M = MARGIN - 1"
O = OPENING 3" SQUARE PER UNIT
F = FRETWORK - ⅜
REDUCTION LAYOUT
MOSAIC DESIGN STYLE S-2 GRILLE

Made To
48" Width - 120" Length
Larger in Sections
Paneled with Stiffeners

TABLE OF OPENING SIZES

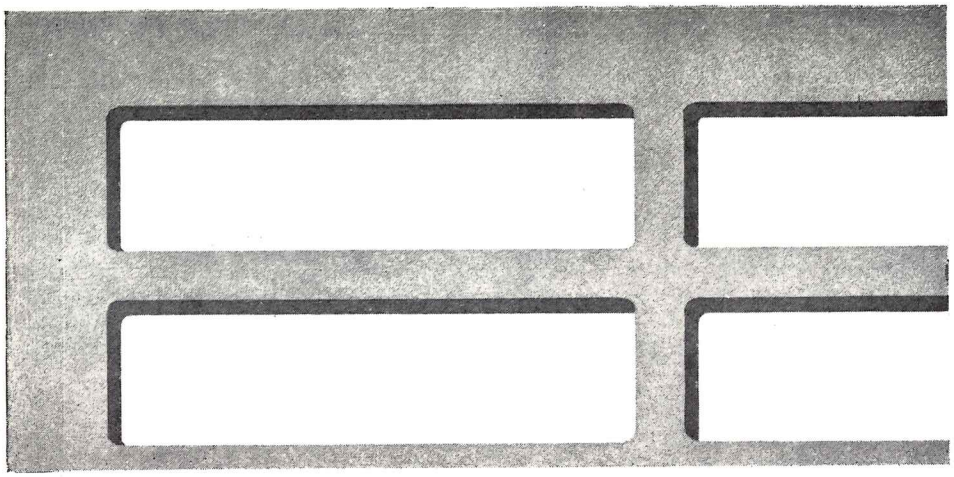
No. of Holes	Opening Sizes	No. of Holes	Opening Sizes	No. of Holes	Opening Sizes
1	3"	16	53⅝"	31	104¼"
2	6⅜"	17	57"	32	107⅝"
3	9¾"	18	60⅜"	33	111"
4	13⅛"	19	63¾"	34	114⅜"
5	16½"	20	67⅛"	35	117¾"
6	19⅞"	21	70½"	36	121⅛"
7	23¼"	22	73⅞"	37	124½"
8	26⅝"	23	77¼"	38	127⅞"
9	30"	24	80⅝"	39	131¼"
10	33⅜"	25	84"	40	134⅝"
11	36¾"	26	87⅜"	41	138"
12	40⅛"	27	90¾"	42	141⅜"
13	43½"	28	94⅛"	43	144¾"
14	46⅞"	29	97½"	44	148⅛"
15	50¼"	30	100⅞"	45	151½"

Maximum Thickness

STEEL 1/4 inch - BRONZE 1/4 inch - ALUMINUM 1/4 inch

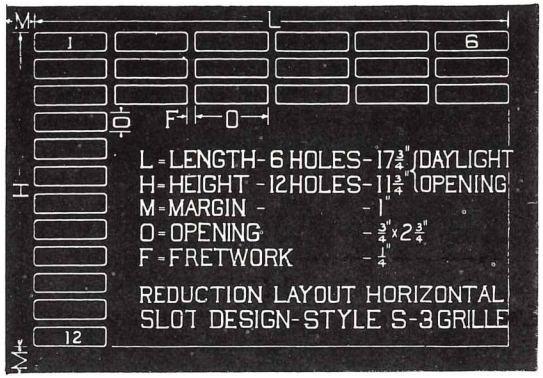
STAINLESS STEEL No. 10 USS - MONEL No. 10 USS

3/4 x 2 3/4 inch HORIZONTAL SLOT GRILLE PATTERN · design S-3



ACTUAL SIZE

75% Open Area



design S-3

3/4 x 2-3/4 inch MESH - 1/4 inch FRETWORK

75% OPEN AREA

Made To

48" Width - 120" Length

Larger in Sections - Paneled with Stiffeners

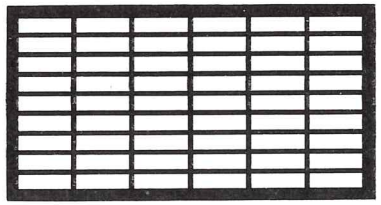


TABLE OF OPENING SIZES

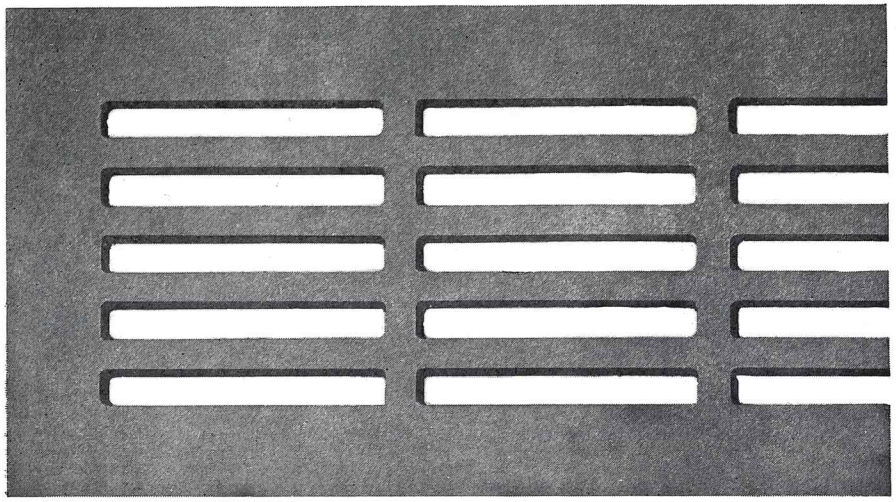
No. of Holes	Opening Sizes		No. of Holes	Opening Sizes		No. of Holes	Opening Sizes	
	Length	Height		Length	Height		Length	Height
1	2 3/4"	3/4"	15	44 3/4"	14 3/4"	29	86 3/4"	28 3/4"
2	5 3/4"	1 3/4"	16	47 3/4"	15 3/4"	30	89 3/4"	29 3/4"
3	8 3/4"	2 3/4"	17	50 3/4"	16 3/4"	31	92 3/4"	30 3/4"
4	11 3/4"	3 3/4"	18	53 3/4"	17 3/4"	32	95 3/4"	31 3/4"
5	14 3/4"	4 3/4"	19	56 3/4"	18 3/4"	33	98 3/4"	32 3/4"
6	17 3/4"	5 3/4"	20	59 3/4"	19 3/4"	34	101 3/4"	33 3/4"
7	20 3/4"	6 3/4"	21	62 3/4"	20 3/4"	35	104 3/4"	34 3/4"
8	23 3/4"	7 3/4"	22	65 3/4"	21 3/4"	36	107 3/4"	35 3/4"
9	26 3/4"	8 3/4"	23	68 3/4"	22 3/4"	37	110 3/4"	36 3/4"
10	29 3/4"	9 3/4"	24	71 3/4"	23 3/4"	38	113 3/4"	37 3/4"
11	32 3/4"	10 3/4"	25	74 3/4"	24 3/4"	39	116 3/4"	38 3/4"
12	35 3/4"	11 3/4"	26	77 3/4"	25 3/4"	40	119 3/4"	39 3/4"
13	38 3/4"	12 3/4"	27	80 3/4"	26 3/4"	41	122 3/4"	40 3/4"
14	41 3/4"	13 3/4"	28	83 3/4"	27 3/4"	42	125 3/4"	41 3/4"

Maximum Thickness

STEEL No. 10 USS - BRONZE 1/4 inch - ALUMINUM 1/4 inch

STAINLESS STEEL No. 12 USS - MONEL No. 10 USS

3/16 x 1 ½ inch SCHOOL SLOT GRILLE PATTERN · design S-4



ACTUAL SIZE

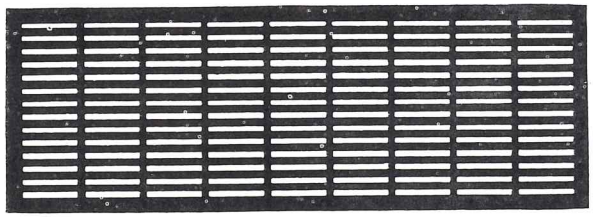
design S-4

3/16 x 1-1/2 inch MESH - 5/32 inch FRETWORK

51% OPEN AREA

Made To: 24" Width - 120" Length

Larger in Sections - Paneled with Stiffeners



51% Open Area

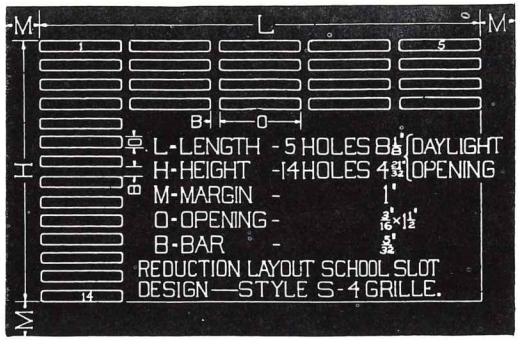


TABLE OF OPENING SIZES

No. of Holes	Opening Sizes		No. of Holes	Opening Sizes		No. of Holes	Opening Sizes	
	Length	Height		Length	Height		Length	Height
1	1½"	3/16"	23	37 15/16"	7¾"	45	74⅜"	15 5/16"
2	3 5/32"	17/32"	24	39 19/32"	8 3/32"	46	76 1/32"	15 21/32"
3	4 13/16"	7/8"	25	41¼"	8 7/16"	47	77 11/16"	16"
4	6 15/32"	1 7/32"	26	42 29/32"	8 25/32"	48	79 11/32"	16 11/32"
5	8⅛"	1 9/16"	27	44 9/16"	9⅛"	49	81"	16 11/16"
6	9 25/32"	1 29/32"	28	46 7/32"	9 15/32"	50	82 21/32"	17 1/32"
7	11 7/16"	2¼"	29	47⅞"	9 13/16"	51	84 5/16"	17¾"
8	13 3/32"	2 19/32"	30	49 17/32"	10 5/32"	52	85 31/32"	17 23/32"
9	14¾"	2 15/16"	31	51 3/16"	10½"	53	87⅝"	18 1/16"
10	16 13/32"	3 9/32"	32	52 27/32"	10 27/32"	54	89 9/32"	18 13/32"
11	18 1/16"	3⅝"	33	54½"	11 3/16"	55	90 15/16"	18¾"
12	19 23/32"	3 31/32"	34	56 5/32"	11 17/32"	56	92 19/32"	19 3/32"
13	21⅜"	4 5/16"	35	57 13/16"	11⅞"	57	94¼"	19 7/16"
14	23 1/32"	4 21/32"	36	59 5/32"	12 7/32"	58	95 29/32"	19 25/32"
15	24 11/16"	5"	37	61⅛"	12 9/16"	59	97 9/16"	20⅛"
16	26 1/32"	5 11/32"	38	62 25/32"	12 29/32"	60	99 7/32"	20 15/32"
17	28"	5 11/16"	39	64 7/32"	13¼"	61	100⅞"	20 13/16"
18	29 21/32"	6 1/32"	40	66 3/32"	13 19/32"	62	102 17/32"	21 5/32"
19	31 5/16"	6⅜"	41	67¾"	13 15/16"	63	104 3/16"	21½"
20	32 31/32"	6 23/32"	42	69 13/32"	14 9/32"	64	105 27/32"	21 27/32"
21	34⅝"	7 1/16"	43	71 1/16"	14⅝"	65	107½"	22 3/16"
22	36 9/32"	7 13/32"	44	72 23/32"	14 31/32"	66	109 5/32"	22 17/32"

Maximum Thickness

STEEL No. 12 USS - BRONZE 1/8 inch - ALUMINUM 1/8 inch

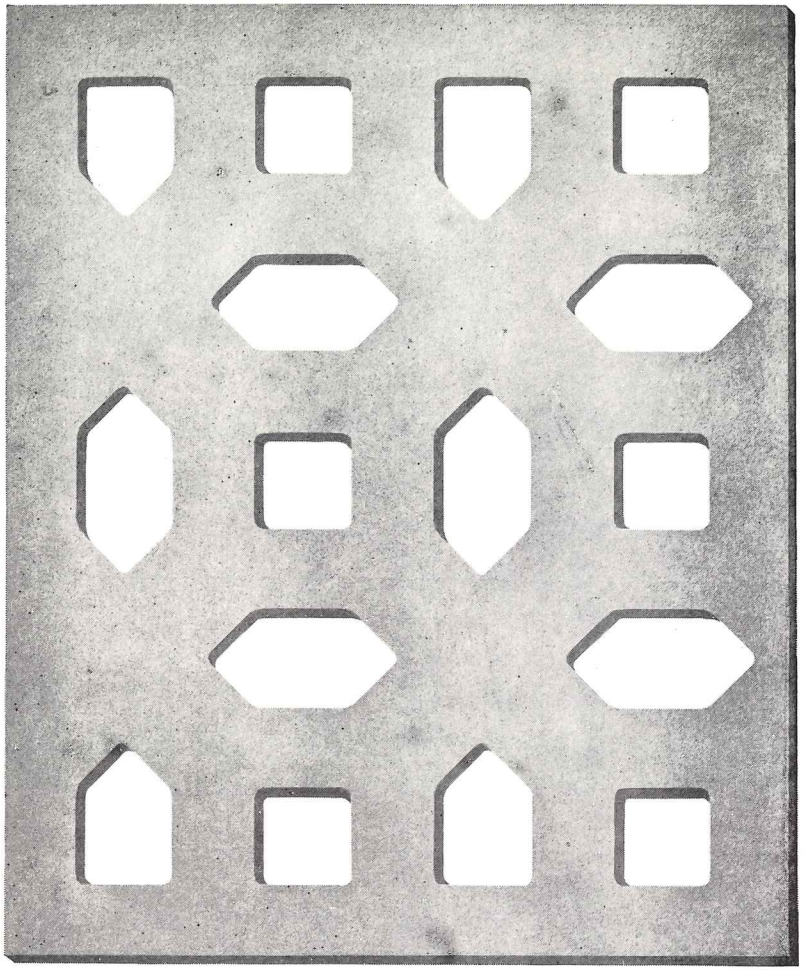
STAINLESS STEEL No. 14 USS - MONEL No. 12 USS

For Grilles exceeding 24" width or longer than 60" Minimum margins of 1" are recommended.

DIAMOND MANUFACTURING COMPANY

WYOMING - PENNSYLVANIA

CEILING GRILLE PATTERN · design S-5



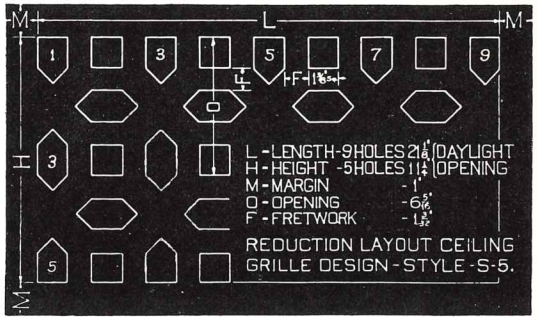
THREE-EIGHTHS ACTUAL SIZE

design S-5

6-5/16 inch MESH - 1-3/32 inch FRETWORK

35% OPEN AREA

35% Open Area

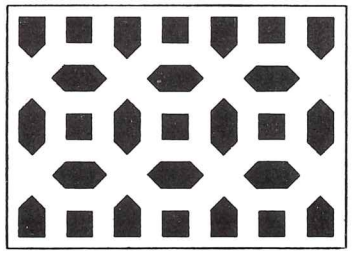


Made To
48" Width - 120" Length
Larger in Sections
Paneled with Stiffeners

(Design Patent Applied For)

TABLE OF OPENING SIZES

No. of Holes	Opening Sizes	No. of Holes	Opening Sizes
3	6 5/16"	33	80 3/8"
5	11 1/4"	35	85 5/16"
7	16 3/16"	37	90 1/4"
9	21 1/8"	39	95 3/16"
11	26 1/16"	41	100 1/8"
13	31"	43	105 1/16"
15	35 15/16"	45	110"
17	40 7/8"	47	114 15/16"
19	45 13/16"	49	119 7/8"
21	50 3/4"	51	124 13/16"
23	55 11/16"	53	129 3/4"
25	60 5/8"	55	134 11/16"
27	65 9/16"	57	139 5/8"
29	70 1/2"	59	144 9/16"
31	75 7/16"	61	149 1/2"



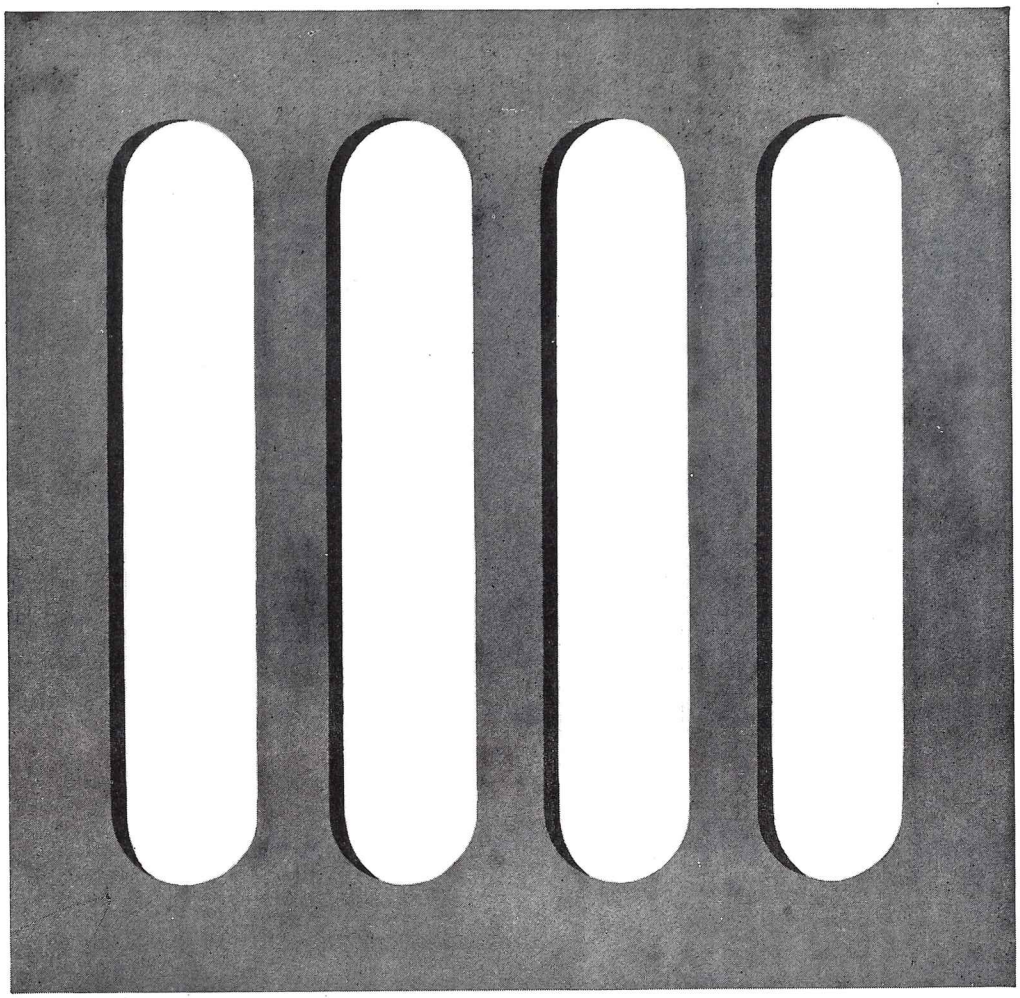
Maximum Thickness

STEEL 1/4 inch - BRONZE 1/4 inch

ALUMINUM 1/4 inch - MONEL No. 10 USS

STAINLESS STEEL No. 10 USS

ROUND END SANITARY SLOT GRILLE PATTERNS • designs S-6-7-8



ACTUAL SIZE

design S-6

design S-6 SLOT 3/4 INCH WIDTH

Slot Height 2″ to 5″ has ¼″ Fretwork
Slot Height 5″ to 11″ has ⅜″ Fretwork
Slot Height 11″ to 16″ has ½″ to ¾″ Fretwork

design S-7 SLOT 1 INCH WIDTH

Slot Height 5″ has ¼″ Fretwork
Slot Height 5″ to 11″ has ⅜″ Fretwork
Slot Height 11″ to 16″ has ½″ to ¾″ Fretwork

design S-8 SLOT 5/8 INCH WIDTH

Slot Height 3¼″ to 5″ has ¼″ Fretwork
Slot Height 5″ to 11″ has ⅜″ Fretwork
Slot Height 11″ to 16″ has ½″ to ¾″ Fretwork

Grilles with Openings over 16″ to be made with Two or more Rows of Slots of equal length

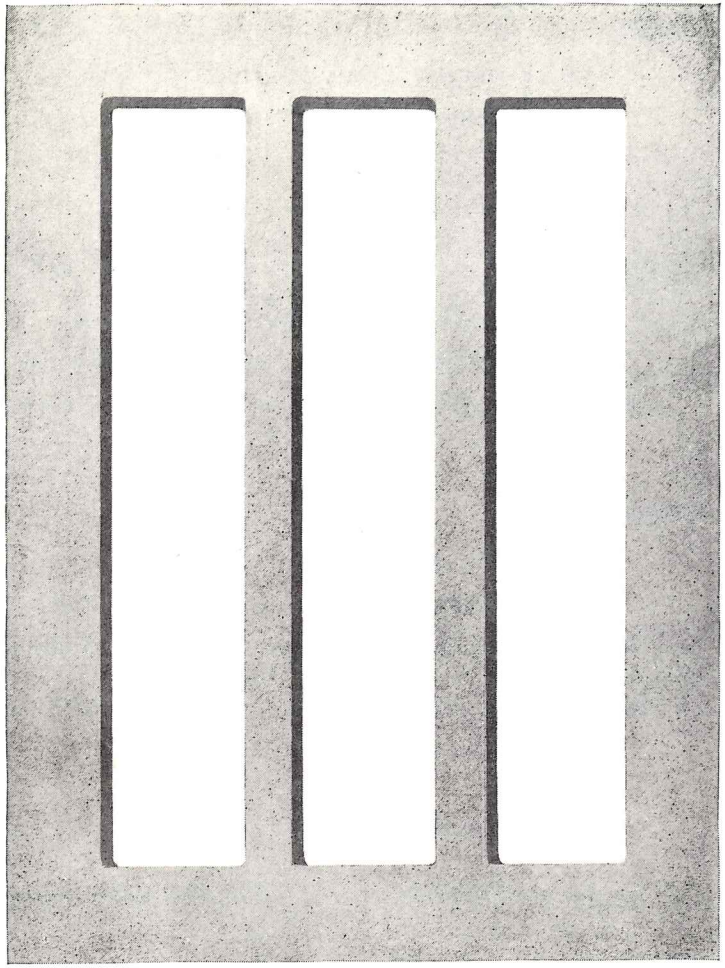
Made to 40 inch Width - 90 inch Length

Larger in Sections - Paneled with Stiffeners

Maximum Thickness

STEEL No. 10 USS - BRONZE 1/8 inch
ALUMINUM 1/8 inch - MONEL METAL No. 10 USS
STAINLESS STEEL No. 12 USS

SQUARE END SANITARY SLOT GRILLE PATTERNS • designs S-10-11-12



ACTUAL SIZE

design S-10

design S-10 SLOT 3/4 INCH WIDTH

Slot Height 2¾″ to 5″ has ¼″ Fretwork
Slot Height 5″ to 11″ has ⅜″ Fretwork
Slot Height 11″ to 16″ has ½″ to ¾″ Fretwork

design S-11 SLOT 7/8 INCH WIDTH

Slot Height 2½″ to 5″ has ¼″ Fretwork
Slot Height 5″ to 11″ has ⅜″ Fretwork
Slot Height 11″ to 16″ has ½″ to ¾″ Fretwork

design S-12 SLOT 1-1/2 INCH WIDTH

Slot Height 4½″ to 10″ has ½″ Fretwork
Slot Height 11″ to 16″ has ¾″ Fretwork

Grilles with Openings Over 16″ High to be made with Two or More Rows of Slots of Equal Length.

Made to 40 inch Width - 90 inch Length

Larger in Sections - Paneled with Stiffeners

Maximum Thickness

STEEL No. 10 USS - BRONZE 1/8 inch
ALUMINUM 1/8 inch - MONEL METAL No. 10 USS
STAINLESS STEEL No. 12 USS